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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 17.9109 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-13

Perfect score: 162

Sequence: 1 AKKARAAKKARAARAKKARAARAKKARAARAKKARA 36

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	64.2	223	3	US-09-095-855-201
2	104	64.2	223	4	US-09-205-426-201
3	88.5	54.6	469	4	US-09-489-039A-13565
4	83	51.2	109	4	US-09-405-743A-7
5	80	49.4	48	3	US-08-993-008A-5
6	80	49.4	56	3	US-08-993-008A-6
7	80	49.4	100	2	US-08-460-890A-63
8	80	49.4	100	2	US-08-460-890A-64
9	80	49.4	100	3	US-08-167-641C-63
10	80	49.4	100	3	US-08-167-641C-64
11	80	49.4	100	3	US-08-460-871A-63
12	80	49.4	100	3	US-08-460-871A-64
13	80	49.4	100	3	US-08-462-040-63
14	80	49.4	100	3	US-08-462-040-64
15	79	48.8	60	1	US-08-346-849-16
16	79	48.8	60	2	US-08-293-284A-16
17	79	48.8	60	4	US-08-898-300-16
18	79	48.8	1507	3	US-08-929-329-5
19	75.5	46.6	56	4	US-09-405-743A-3
20	75.5	46.6	218	3	US-09-041-889-4
21	75.5	46.6	218	3	US-08-837-058-4
22	75.5	46.6	218	4	US-09-417-264-4
23	74	45.7	407	4	US-09-252-991A-29581
24	73.5	45.4	207	4	US-09-489-039A-13743
25	72	44.4	86	4	US-09-405-743A-6
26	71.5	44.1	33	1	US-08-303-025-16
27	71.5	44.1	33	2	US-08-436-703B-4

28	71.5	44.1	204	4	US-09-134-000C-3554	Sequence 3554, Ap
29	71	43.8	77	4	US-09-405-743A-5	Sequence 5, Appli
30	71	43.8	236	4	US-09-252-981A-18461	Sequence 18461, A
31	70	43.2	29	1	US-08-152-488-12	Sequence 12, Appl
32	70	43.2	29	1	US-08-303-025-14	Sequence 14, Appl
33	70	43.2	29	1	US-08-677-304-12	Sequence 12, Appl
34	70	43.2	29	2	US-08-436-703B-16	Sequence 16, Appl
35	70	43.2	37	3	US-08-995-172-20	Sequence 20, Appl
36	70	43.2	66	4	US-09-405-743A-4	Sequence 4, Appli
37	70	43.2	116	3	US-09-041-889-38	Sequence 38, Appl
38	70	43.2	116	4	US-09-417-264-38	Sequence 38, Appl
39	70	43.2	158	3	US-09-041-889-40	Sequence 40, Appl
40	70	43.2	212	3	US-09-417-264-40	Sequence 40, Appl
41	70	43.2	212	3	US-09-041-889-1	Sequence 1, Appli
42	70	43.2	212	3	US-08-837-058-1	Sequence 1, Appli
43	70	43.2	212	4	US-09-417-264-1	Sequence 1, Appli
44	70	43.2	222	3	US-09-041-889-3	Sequence 3, Appli
45	70	43.2	222	3	US-08-837-058-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-09-095-855-201
; Sequence 201, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TITLE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 201:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 223 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein


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; SEQUENCE CHARACTERISTICS:
; LENGTH: 48 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: peptide
; HYPOTHEetical: NO
; ANTI-SENSE: NO
US-08-993-008A-5

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Query Match 49.4%; Score 80; DB 3; Length 48;
Best Local Similarity 52.9%; Pred. No. 0.0035;
Matches 18; Conservative 6; Mismatches 10; Indels

Qy	3 KARAAKKARAANKARAAAKKARAANKARA : : : : : : :
Db	1 KAKAKAKAKAKAKAKAKAKAKAKAKAKA : : : : : : :

```

RESULT 6
US-C8-993-008A-6
: Sequence 6, Application US/08993008A
: Patent No. 6153596
: GENERAL INFORMATION:
: APPLICANT: Liotta, Dennis C.
: APPLICANT: Petros, John A.
: APPLICANT: Wey, Shiow-Yyi
: APPLICANT: Karr, Joan F.
: APPLICANT: Pohl, Jan
: TITLE OF INVENTION: Polycationic Oligomers
: NUMBER OF SEQUENCES: 6
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Greenlee, Winner and Sullivan
: STREET: 5370 Manhattan Circle, Suite 201
: CITY: Boulder
: STATE: CO
: COUNTRY: US

```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993,008A
FILING DATE: 18-DEC-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/032,436
FILING DATE: 18-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Sullivan, Sally A.
REGISTRATION NUMBER: 32,064
REFERENCE/DOCKET NUMBER: 33-95
TELECOMMUNICATION INFORMATION:
TELEPHONE: 303-499-8080
TELEFAX: 303-499-8089
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 56 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-993-008A-6

Query Match 49.4%; Score 80; DB 3; Length 56;
Best Local Similarity 52.9%; Pred. No. 0.004;
Matches 18: Conservative 6; Mismatches 10; Indels

3 KARAAKKARAAKKARAAKKARAAKKARA 36 0v

Dip
1 KAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKA 34

RESULT 7
 US-08-460-890A-63
 ; Sequence 63, Application US/08460890A
 ; Patent No. 5994109
 ; GENERAL INFORMATION:
 ; APPLICANT: Woo, Savio L.C.
 ; APPLICANT: Smith, Louis C.
 ; APPLICANT: Cristiano, Richard J.
 ; APPLICANT: Gotchalk, Stephen
 ; TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND
 ; TITLE OF INVENTION: METHODS OF USE
 ; NUMBER OF SEQUENCES: 65
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Lyon & Lyon
 ; STREET: 633 West Fifth Street
 ; STREET: Suite 4700
 ; CITY: Los Angeles
 ; STATE: California
 ; COUNTRY: U.S.A.
 ; ZIP: 90071-2066
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 ; MEDIUM TYPE: storage
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0
 ; SOFTWARE: FASTSEQ for Windows 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/460,890A
 ; FILING DATE: June 5, 1995
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/167,641
 ; FILING DATE: December 14, 1993
 ; APPLICATION NUMBER: 07/855,389
 ; FILING DATE: March 20, 1992
 ; APPLICATION NUMBER: PCT/US93/02725
 ; FILING DATE: March 19, 1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Warburg, Richard J.
 ; REGISTRATION NUMBER: 32,327
 ; REFERENCE/DOCKET NUMBER: 212/066
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (213) 489-1600
 ; TELEFAX: (213) 955-0440
 ; TELEX: 67-3510
 ; INFORMATION FOR SEQ ID NO: 63:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 100 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; FEATURE:
 ; OTHER INFORMATION: "Arg Ala" in positions 3 to 100 may
 ; OTHER INFORMATION: present or absent.
 US-08-460-890A-63

Query Match 49.4%; Score 80; DB 2; Length 100;
Best Local Similarity 52.9%; pred. No. 0.0065;
Matches 18: Conservative 6; Mismatches 10; Indels

QY 3 K A R A A K K A R A A K K A P A A K K A R A A K K A R A 36
 :
Db 1 R A F A R A B A F A R A F A R A F A R A F A R A F A R A F A R A 34

RESULT 8
US-08-460-890A-64
: Sequence 64. Application US/08460890A

TITLE OF INVENTION: METHODS OF USE
 NUMBER OF SEQUENCES: 65
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Lyon & Lyon
 STREET: 633 West Fifth Street
 STREET: Suite 4700
 CITY: Los Angeles
 STATE: California
 COUNTRY: U.S.A.
 ZIP: 90071-2066
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 MEDIUM TYPE: storage
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: IBM P.C. DOS 5.0
 SOFTWARE: FastSEQ for Windows 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/167,641C
 FILING DATE: December 14, 1993
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/855,389
 FILING DATE: March 20, 1992
 APPLICATION NUMBER: PCT/US93/02725
 FILING DATE: March 19, 1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Warburg, Richard J.
 REGISTRATION NUMBER: 32,327
 REFERENCE/DOCKET NUMBER: 205/012
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (213) 489-1600
 TELEFAX: (213) 955-0440
 TELEX: 67-3510
 INFORMATION FOR SEQ ID NO: 63:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 100 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 FEATURE:
 OTHER INFORMATION: "Arg Ala" in positions 3 to 100 may be
 OTHER INFORMATION: present or absent.
 US-08-167-641C-63

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Query Match      49.4%; Score 80; DB 2; Length 100;
Best Local Similarity .52.9%; Pred. NO. 0.0065;
Matches 18; Conservative 6; Mismatches 10; Indels 0; Gaps 0;

QY      3  KARAAKKARAAKKARAARAKKARAKKARA 36
      ||| : ||| : ||| : ||| :
Db      1  KAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKA 34

```

RESULT 10
US-08-167-641C-64
: Sequence 64, Application US/08167641C
: Patent No. 6033884
: GENERAL INFORMATION:
: APPLICANT: Wco. Savio L.C.
: APPLICANT: Smith, Louis C.
: APPLICANT: Cristiano, Richard J.
: APPLICANT: Gottchalk, Stephen
: TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND
: TITLE OF INVENTION: METHODS OF USE
: NUMBER OF SEQUENCES: 65
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Lyon & Lyon
: STREET: 633 West Fifth Street
: STREET: Suite 4700
: CITY: Los Angeles
: STATE: California
: COUNTRY: U.S.A.


```

; APPLICATION NUMBER: PCT/US93/02725
; FILING DATE: March 19, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 212/063
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be
; OTHER INFORMATION: present or absent.
; US-08-460-971A-64

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Query Match 49.4%; Score 80; DB 3; Length 100;
Best Local Similarity 52.9%; Pred. No. 0.0065;
Matches 18; Conservative 6; Mismatches 10; Indels

Qy 3 K R A A K K A P A A K K A P A A K K A P A A K K A P A 36
||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:

Dp 1 K A K A K A K A K A K A K A K A K A K A K A K A K A 34

RESULT 13
 US-08-462-040-63
 ; Sequence 63, Application US/08462040
 ; Patent No. 6177554
 ; GENERAL INFORMATION:
 ; APPLICANT: Woo, Savio L.C.
 ; APPLICANT: Smith, Louis C.
 ; APPLICANT: Cristiano, Richard J.
 ; APPLICANT: Gottchalk, Stephen
 ; TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND
 ; TITLE OF INVENTION: METHODS OF USE
 ; NUMBER OF SEQUENCES: 65
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Lyon & Lyon
 ; STREET: 633 West Fifth Street
 ; STREET: Suite 4700
 ; CITY: Los Angeles
 ; STATE: California
 ; COUNTRY: U.S.A.
 ; ZIP: 90071-2066
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 ; MEDIUM TYPE: storage
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0
 ; SOFTWARE: FastSeq for Windows 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/462,040
 ; FILING DATE: June 5, 1995
 ; CLASSIFICATION: 536
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/167,641
 ; FILING DATE: December 14, 1993
 ; APPLICATION NUMBER: 07/855,389
 ; FILING DATE: March 20, 1992
 ; APPLICATION NUMBER: PCT/US93/02725
 ; FILING DATE: March 19, 1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Warburg, Richard J.
 ; REGISTRATION NUMBER: 32,327
 ; REFERENCE/DOCKET NUMBER: 212/078
 ; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 63:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Arg Ala" in positions 3 to 100 may be
; present or absent.
US-08-462-040-63

Query Match 49.4%; Score 80; DB 3; Length 100;
Best Local Similarity 52.9%; Pred. No. 0.0055;
Matches 18; Conservative 6; Mismatches 10; Indels
QY 3 KARAAKKAAKAAKAAKAAKAAKAAKAAKAAKAA 36
Db 1 RARARARARARARARARARARARARARARARAR 34

Query Match 49.4%; Score 80; DB 3; Length 100;
Best Local Similarity 52.9%; Pred. No. 0.0065;
Matches 18; Conservative 6; Mismatches 10; Indels

Qy 3 K A R A A K K A F A A A K A P A A K K A F A A A K K A F A A 36
 :
Db 1 K A R A C A F A E A R A P A R A F A F A R A P A R A F A A 34

RESULT 14
US-08-462-040-64
Sequence 64, Application US/09462040
Patent No. 6177554
GENERAL INFORMATION:
APPLICANT: Woo, Savio L.C.
APPLICANT: Smith, Louis C.
APPLICANT: Cristiano, Richard J.
APPLICANT: Gottchalk, Stephen
TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND
TITLE OF INVENTION: METHODS OF USE
NUMBER OF SEQUENCES: 65
CORRESPONDENCE ADDRESS:
ADDRESSER: LYON & LYON
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Fastseq for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/462,040
FILING DATE: June 5, 1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/167,641
FILING DATE: December 14, 1993
APPLICATION NUMBER: 07/855,389
FILING DATE: March 20, 1992
APPLICATION NUMBER: ECT/US93/02725
FILING DATE: March 19, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 212/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid

Search completed: August 17, 2004, 16:14:26
Job time : 17.9109 secs

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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be
; OTHER INFORMATION: present or absent.
US-08-462-040-64

Query Match          49.4%; Score 80; DB 3; Length 100;
Best Local Similarity 52.9%; Pred. No. 0.0065;
Matches 18; Conservative 6; Mismatches 10; Indels 0; Gaps 0;
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RESULT 15
US-08-346-849-16
; Sequence 16, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSER: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/346,849
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-346-849-16

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Query Match      48.8%; Score 79; DB 1; Length 60;
Best Local Similarity 55.6%; Pred. No. 0.0054;
Matches 20; Conservative 5; Mismatches 9; Indels 2; Gaps 1;

Qy  2  KKAARAAKKAARAAKKAARAAK--KARAARKAR 35
      ||| ||| ||| ||| ||| ||| ||| |||
Db   6  RKAALAKKAARAAKKAARAAKKAARPKKKAARAK 41

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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 56.7624 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-13
Perfect score: 162
Sequence: 1 AKKARAANKARAANKARAANKARAANKARA 36

Scoring table: BLOSUM62
Gap 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:
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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
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8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
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15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	104	64.2	223	13	US-10-051-643-201
2	104	64.2	223	14	US-10-205-379-52
3	85.5	52.8	428	12	US-10-282-122A-55748
4	85	52.5	372	12	US-10-282-122A-68109
5	84	51.9	323	12	US-10-282-122A-59321
6	83	51.2	109	9	US-09-816-989A-7
7	82	50.6	243	9	US-09-771-161A-127
8	79	48.8	60	16	US-10-390-472-16
9	76.5	47.2	217	14	US-10-156-761-10221
10	75.5	46.6	55	16	US-10-240-430-8
11	75.5	46.6	56	9	US-09-816-989A-3
12	75.5	46.6	66	16	US-10-240-430-7
13	75.5	46.6	130	14	US-10-262-209-2
14	75.5	45.6	130	16	US-10-240-430-5
15	75.5	45.6	218	14	US-10-229-567-4

16	75.5	46.6	234	14	US-10-262-209-1
17	75.5	46.6	234	16	US-10-240-430-2
18	75.5	46.6	421	12	US-10-282-122A-56483
19	75	46.3	272	14	US-10-156-761-12370
20	74.5	46.0	539	15	US-10-369-493-17058
21	74	45.7	293	16	US-10-437-963-186290
22	74	45.7	347	12	US-10-282-122A-66237
23	74	45.7	347	14	US-10-127-032-120
24	73.5	45.4	139	12	US-10-282-122A-60257
25	72	44.4	86	9	US-09-816-989A-6
26	72	44.4	376	12	US-10-282-122A-75772
27	72	44.4	376	14	US-10-156-761-9889
28	71	43.8	77	9	US-09-816-989A-5
29	71	43.8	407	12	US-10-282-122A-75047
30	70.5	43.5	298	12	US-10-425-114-56061
31	70	43.2	66	9	US-09-816-989A-4
32	70	43.2	116	14	US-10-229-567-38
33	70	43.2	158	14	US-10-229-567-40
34	70	43.2	212	14	US-10-229-567-1
35	70	43.2	222	14	US-10-229-567-3
36	70	43.2	226	14	US-10-229-567-32
37	70	43.2	336	12	US-10-282-122A-69962
38	70	43.2	838	14	US-10-156-761-10342
39	69.5	42.9	373	12	US-10-424-599-144844
40	69	42.6	76	12	US-10-424-599-210232
41	69	42.6	214	12	US-10-282-122A-62547
42	69	42.6	214	12	US-10-282-122A-64817
43	69	42.6	214	14	US-10-229-567-27
44	69	42.6	301	16	US-10-437-963-182491
45	69	42.6	373	16	US-10-437-963-125161

ALIGNMENTS

RESULT 1

US-10-051-643-201
; Sequence 201, Application US/10051643
; Publication No. US20020197265A1
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; TITLE OF INVENTION: Methods and Compounds for the Treatment of Immunologically-Mediated Diseases of the Respiratory System using Mycobacterium Vaccae
; TITLE OF INVENTION: System using Mycobacterium Vaccae
; FILE REFERENCE: 11000.10082
; CURRENT APPLICATION NUMBER: US/10/051,643
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US09/156,181
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: US 08/996,624
; PRIOR FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 201
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-051-643-201

Query Match 64.2%; Score 104; DB 13; Length 223;
Best Local Similarity 72.2%; Pred. No. 4.5e-05;
Matches 26; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 1 AKKARAANKARAANKARAANKARAANKARA 36
DB 141 ATKAAAKKATAAKKAAKATAAKKAAKAAKAPA 176

RESULT 2

US-10-205-979-52
; Sequence 52, Application US/10205979
; Publication No. US20030147861A1


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RESULT 5
US-10-282-122A-59321
; Sequence 59321, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 59321
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-10-282-122A-59321

Query Match 51.9%; Score 84; DB 12; Length 323;
Best Local Similarity 52.2%; Pred.No. 0.014;
Matches 24; Conservative 3; Mismatches 7; Indels 12; Gaps 1;

QY 1 AKKARAANKKARAANKKAPAAK-----KARAANKKARAANKKA 34
DB 149 AEXAAAAEKAAAAKAAAAAEXAAADKAAKAAAAKAAAAKAAAAKAA 194

RESULT 6
US-09-816-989A-7
; Sequence 7, Application US/09816989A
; Patent No. US20020115103A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; TITLE OF INVENTION: AND FOR THERAPEUTIC USE
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25

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1 AKKARA AKKARA AKKARA AKKARA - AKKARA 36

RESULT 12					
US-10-240-430-7					
; Sequence 7, Application US/10240430					
; Publication No. US20040110928A1					
; GENERAL INFORMATION:					
; APPLICANT: Crisanti, Andrea					
; APPLICANT: Essegghir, Selma					
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery					
; FILE REFERENCE: GJE-6402					
; CURRENT APPLICATION NUMBER: US/10/240,430					
; CURRENT FILING DATE: 2003-04-15					
; PRIOR APPLICATION NUMBER: PCT/GB01/01697					
; PRIOR FILING DATE: 2001-04-12					
; PRIOR FILING DATE: 2001-02-02					
; PRIOR FILING DATE: 2001-04-12					
; PRIOR FILING DATE: 2000-04-12					
; NUMBER OF SEQ ID NOS: 14					
; SOFTWARE: Patentin version 3.1					
; SEQ ID NO 5					
; LENGTH: 130					
; TYPE: PRT					
; ORGANISM: Homo sapiens					
US-10-240-430-7					
Query Match 46.6%; Score 75.5; DB 16; Length 66;					
Best Local Similarity 50.0%; Pred. No. 0.057;					
Matches 19; Conservative 6; Mismatches 10; Indels 3; Gaps 1;					
Qy	2	KKAAAKKARAARKAARAAKKARAARKAARAAK---KARA 36			
Dd	1	KKAKPAAAAGAKAKSPKKAKAARPKKAPKSPAKAKA 38			
RESULT 13					
US-10-262-209-2					
; Sequence 2, Application US/10262209					
; Publication No. US20030125239A1					
; GENERAL INFORMATION:					
; APPLICANT: Crisanti, Andrea					
; APPLICANT: Essegghir, Selma					
; TITLE OF INVENTION: Compositions for Drug Delivery					
; FILE REFERENCE: GJE-6703					
; CURRENT APPLICATION NUMBER: US/10/262,209					
; CURRENT FILING DATE: 2002-09-30					
; PRIOR APPLICATION NUMBER: UK 0218324.2					
; PRIOR FILING DATE: 2002-08-07					
; PRIOR APPLICATION NUMBER: PCT/GB01/01699					
; PRIOR FILING DATE: 2001-04-12					
; PRIOR APPLICATION NUMBER: UK 0102667.3					
; PRIOR FILING DATE: 2001-02-02					
; PRIOR APPLICATION NUMBER: UK 0009080.3					
; PRIOR FILING DATE: 2000-04-12					
; NUMBER OF SEQ ID NOS: 2					
; SOFTWARE: Patentin version 3.1					
; SEQ ID NO 2					
; LENGTH: 130					
; TYPE: PRT					
; ORGANISM: Homo sapiens					
US-10-262-209-2					
Query Match 46.6%; Score 75.5; DB 14; Length 130;					
Best Local Similarity 50.0%; Pred. No. 0.057;					
Matches 19; Conservative 6; Mismatches 10; Indels 3; Gaps 1;					
Qy	2	KKAAAKKARAARKAARAAKKARAARKAARAAK---KARA 36			
Dd	65	KKAKPAAAAGAKAKSPKKAKAARPKKAPKSPAKAKA 102			
RESULT 14					
US-10-240-430-5					
; Sequence 5, Application US/10240430					
; Publication No. US20040110928A1					
; GENERAL INFORMATION:					
; APPLICANT: Crisanti, Andrea					
; APPLICANT: Essegghir, Selma					
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery					
; FILE REFERENCE: GJE-6402					
; CURRENT APPLICATION NUMBER: US/10/240,430					
; CURRENT FILING DATE: 2003-04-15					
; PRIOR APPLICATION NUMBER: PCT/GB01/01697					
; PRIOR FILING DATE: 2001-04-12					
; PRIOR FILING DATE: 2001-02-02					
; PRIOR FILING DATE: 2001-04-12					
; PRIOR FILING DATE: 2000-04-12					
; NUMBER OF SEQ ID NOS: 14					
; SOFTWARE: Patentin version 3.1					
; SEQ ID NO 5					
; LENGTH: 130					
; TYPE: PRT					
; ORGANISM: Homo sapiens					
US-10-240-430-5					
Query Match 46.6%; Score 75.5; DB 16; Length 130;					
Best Local Similarity 50.0%; Pred. No. 0.057;					
Matches 19; Conservative 6; Mismatches 10; Indels 3; Gaps 1;					
Qy	2	KKAAAKKARAARKAARAAKKARAARKAARAAK---KARA 36			
Dd	65	KKAKPAAAAGAKAKSPKKAKAARPKKAPKSPAKAKA 102			
RESULT 15					
US-10-229-567-4					
; Sequence 4, Application US/10229567					
; Publication No. US20030092080A1					
; GENERAL INFORMATION:					
; APPLICANT: Braun, Jonathan					
; APPLICANT: Cohavy, Offer					
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of					
; Uicerative Colitis, and Clinical Subtypes Thereof, Using					
; Microbial UC pANCA antigens					
; NUMBER OF SEQUENCES: 41					
; CORRESPONDENCE ADDRESS:					
; ADDRESSEE: Campbell & Flores LLP					
; STREET: 4370 La Jolla Village Drive, Suite 700					
; CITY: San Diego					
; STATE: California					
; COUNTRY: USA					
; ZIP: 92122					
; COMPUTER READABLE FORM:					
; MEDIUM TYPE: Floppy disk					
; COMPUTER: IBM PC compatible					
; OPERATING SYSTEM: PC-DOS/MS-DOS					
; SOFTWARE: Patentin Release #1.0, Version #1.25					
; CURRENT APPLICATION DATA:					
; APPLICATION NUMBER: US/10/229,567					
; FILING DATE: 27-Aug-2002					
; CLASSIFICATION: <Unknown>					
; PRIOR APPLICATION DATA:					
; APPLICATION NUMBER: US/09/417,264					
; FILING DATE: <unknown>					
; APPLICATION NUMBER: US 09/041,889					
; FILING DATE: <unknown>					
; ATTORNEY/AGENT INFORMATION:					
; NAME: Campbell, Cathryn A.					
; REGISTRATION NUMBER: 31,815					
; REFERENCE/DOCKET NUMBER: P-PM 3006					
; TELECOMMUNICATION INFORMATION:					
; TELEPHONE: (619) 535-9001					
; TELEFAX: (619) 535-8949					
; INFORMATION FOR SEQ ID NO: 4:					
; SEQUENCE CHARACTERISTICS:					
; LENGTH: 218 amino acids					

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; TYPE: amino acid
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1..218
; OTHER INFORMATION: /note= "product = Human Histone
; H1-S-4"
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-229-567-4
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Query Match 46.6%; Score 75.5; DB 14; Length 218;
Best Local Similarity 50.0%; Pred. No. 0.093;
Matches 19; Conservative 6; Mismatches 10; Indels 3; Gaps 1;
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QY 2 KKRAAKKARAAKARAAKARAAK--KARA 36
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Db 155 KKAKFAAAGAKKAKSPKAKAAKPKKAPKSPAKA 192
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Job time : 56.7624 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 7.9604 Seconds
(without alignments)
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Title: US-09-496-391-35

Perfect score: 77

Sequence: 1 ARKKAARAAARKACRA 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	52	67.5	21	2	US-08-660-592-9
2	52	67.5	21	3	US-09-166-330A-7
3	49	63.6	743	4	US-09-252-991A-28327
4	47	61.0	19	2	US-08-660-592-1
5	47	61.0	19	2	US-08-660-592-6
6	47	61.0	19	3	US-09-166-930A-1
7	47	61.0	358	4	US-09-252-991A-30170
8	46	59.7	133	4	US-09-252-991A-23880
9	46	59.7	246	4	US-09-252-991A-23196
10	46	59.7	411	4	US-09-252-991A-28696
11	45	58.4	464	4	US-09-252-991A-33108
12	44	57.1	16	2	US-08-660-592-2
13	44	57.1	16	2	US-08-660-592-3
14	44	57.1	16	2	US-08-660-592-7
15	44	57.1	16	2	US-08-660-592-8
16	44	57.1	16	3	US-09-166-930A-2
17	44	57.1	16	3	US-09-166-930A-3
18	44	57.1	186	4	US-09-489-039A-11500
19	44	57.1	197	4	US-09-252-991A-26537
20	44	57.1	329	4	US-09-252-991A-18860
21	44	57.1	361	4	US-09-252-991A-28125
22	44	57.1	472	4	US-09-252-991A-17011
23	43	55.8	19	3	US-09-166-930A-6
24	43	55.8	285	4	US-09-252-991A-22267
25	43	55.8	308	4	US-09-252-991A-29958
26	43	55.8	342	4	US-09-252-991A-32412
27	43	55.8	457	4	US-09-252-991A-23463

ALIGNMENTS

RESULT 1

US-08-660-592-9

; Sequence 9, Application US/08660592

; Patent No. 5877153

; GENERAL INFORMATION:

; APPLICANT: HARRIS, Robert B.

; APPLICANT: SOBEL, Michael

; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES

; NUMBER OF SEQUENCES: 11

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS

; STREET: P.O. Box 1404

; CITY: Alexandria

; STATE: Virginia

; COUNTRY: United States

; Zip: 22313-1404

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/660,592

; FILING DATE: 11-JUN-1996

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: McGowan, Malcolm K.

; REGISTRATION NUMBER: 39,300

; REFERENCE/DOCKET NUMBER: 006338-001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (703) 836-6620

; TELEFAX: (703) 836-2021

; INFORMATION FOR SEQ ID NO: 9:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 21 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-660-592-9

Query Match 67.5%; Score 52; DB 2; Length 21;

Best Local Similarity 80.0%; Pred. No. 0.075; 3; Indels 0;

Matches 12; Conservative 0; Mismatches 0; Gaps 0;

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Db 5 ARRAAARAAARAAAR 19

Sequence 23619, A
Sequence 21489, A
Sequence 22284, A
Sequence 20468, A
Sequence 22491, A
Sequence 12347, A
Sequence 17, Appl
Sequence 5, Appl
Sequence 19419, A
Sequence 32618, A
Sequence 18617, A
Sequence 21594, A
Sequence 23675, A
Sequence 27351, A
Sequence 29964, A
Sequence 20554, A
Sequence 31734, A
Sequence 24144, A

492 4 US-09-252-991A-23619
495 4 US-09-252-991A-21489
515 4 US-09-252-991A-22284
534 4 US-09-252-991A-20468
539 4 US-09-252-991A-22491
78 4 US-09-489-039A-12347
38 2 US-08-436-703B-17
39 2 US-08-436-703B-5
145 4 US-09-252-991A-19419
146 4 US-09-252-991A-32618
163 4 US-09-252-991A-18617
176 4 US-09-252-991A-21594
179 4 US-09-252-991A-23675
201 4 US-09-252-991A-27351
266 4 US-09-252-991A-29964
358 4 US-09-252-991A-20554
419 4 US-09-252-991A-31734
482 4 US-09-252-991A-24144

28 43 55.8
29 43 55.8
30 43 55.8
31 43 55.8
32 43 55.8
33 42.5 55.2
34 42 54.5
35 42 54.5
36 42 54.5
37 42 54.5
38 42 54.5
39 42 54.5
40 42 54.5
41 42 54.5
42 42 54.5
43 42 54.5
44 42 54.5
45 42 54.5

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RESULT 2
US-09-166-930A-7
; Sequence 7, Application US/09166930A
; Patent No. 6200955
; GENERAL INFORMATION:
; APPLICANT: HARRIS, Robert B.
; APPLICANT: SOBEL, Michael
; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
; FILE REFERENCE: 006338-006
; CURRENT APPLICATION NUMBER: US/09/166.930A
; CURRENT FILING DATE: 1998-10-06
; PRIOR APPLICATION NUMBER: US 08/660,592
; PRIOR FILING DATE: 1996-06-11
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 7
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: branched-chain
; OTHER INFORMATION: heparin-binding peptide Arg Helix #5
US-09-166-930A-7

Query Match 67.5%; Score 52; DB 3; Length 21;
Best Local Similarity 80.0%; Pred. No. 0.075;
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKAAARAKKAC 15
DB 5 ARRAAARARRAAAR 19

RESULT 3
US-09-252-991A-28327
; Sequence 28327, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28327
; LENGTH: 743
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28327

Query Match 63.6%; Score 49; DB 4; Length 743;
Best Local Similarity 71.4%; Pred. No. 7.3;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKAAARAKKAC 14
DB 106 ARRAAARARRAAAR 119

RESULT 4
US-08-660-592-1
; Sequence 1, Application US/08660592
; Patent No. 5877153
; GENERAL INFORMATION:
; APPLICANT: HARRIS, Robert B.
; APPLICANT: SOBEL, Michael
; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
; NUMBER OF SEQUENCES: 11

```

```

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,592
; FILING DATE: 11-JUN-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm K.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 006338-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-660-592-1

Query Match 61.0%; Score 47; DB 2; Length 19;
Best Local Similarity 84.6%; Pred. No. 0.38;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARKAAARAKKAC 13
DB 5 ARRAAARARRAA 17

RESULT 5
US-08-660-592-6
; Sequence 6, Application US/08660592
; Patent No. 5877153
; GENERAL INFORMATION:
; APPLICANT: HARRIS, Robert B.
; APPLICANT: SOBEL, Michael
; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,592
; FILING DATE: 11-JUN-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm K.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 006338-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021

```

```
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-660-592-6

Query Match      61.0%; Score 47; DB 2; Length 19;
Best Local Similarity 84.6%; Pred. No. 0.38;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 ARKAAARARRKA 13
Db      5 ARRAAARARRAA 17

RESULT 6
US-09-166-930A-1
; Sequence 1, Application US/09166930A
; Patent No. 6200555
; GENERAL INFORMATION:
; APPLICANT: HARRIS, Robert B.
; APPLICANT: SOBEL, Michael
; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
; FILE REFERENCE: 006338-006
; CURRENT APPLICATION NUMBER: US/09/166,930A
; CURRENT FILING DATE: 1998-10-06
; PRIOR APPLICATION NUMBER: US 08/660,592
; PRIOR FILING DATE: 1996-06-11
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: branched-chain
; OTHER INFORMATION: heparin-binding peptide Arg Helix #2
US-09-166-930A-1

Query Match      61.0%; Score 47; DB 3; Length 19;
Best Local Similarity 84.6%; Pred. No. 0.38;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 ARKAAARARRKA 13
Db      5 ARRAAARARRAA 17

RESULT 7
US-09-252-991A-30170
; Sequence 30170, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30170
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30170

Query Match      61.0%; Score 47; DB 4; Length 358;
Best Local Similarity 71.4%; Pred. No. 7;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy      3 RKAAARARRKACRA 16
Db      87 RTARRASRRACRA 100

RESULT 8
US-09-252-991A-23880
; Sequence 23880, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 23880
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23880

Query Match      59.7%; Score 46; DB 4; Length 133;
Best Local Similarity 64.3%; Pred. No. 3.7;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy      2 RKAAARARRKACR 15
Db      49 RRAARRRRRAAR 62

RESULT 9
US-09-252-991A-23196
; Sequence 23196, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 23196
; LENGTH: 246
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23196

Query Match      59.7%; Score 46; DB 4; Length 246;
Best Local Similarity 66.7%; Pred. No. 6.8;
Matches 10; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy      1 ARKAAARARRKACR 15
Db      232 AGRIVARRRRRCR 246

RESULT 10
US-09-252-991A-28696
```

```
; Sequence 28696, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28696
; LENGTH: 411
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28696

Query Match          59.7%; Score 46; DB 4; Length 411;
Best Local Similarity 60.0%; Pred. No. 11;
Matches 9; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy      2 RRKAARARRKACRA 16
      ||:|:|:|:|:|:|
Db      15 RRRRSARRCACEA 29

RESULT 11
US-09-252-991A-33108
; Sequence 33108, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 33108
; LENGTH: 464
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-33108

Query Match          58.4%; Score 45; DB 4; Length 464;
Best Local Similarity 62.5%; Pred. No. 18;
Matches 10; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy      1 ARKAARARRKACRA 16
      ||:|:|:|:|:|
Db      25 ARRRALAGRAVACRA 40

RESULT 12
US-08-660-592-2
; Sequence 2, Application US/08660592
; Patent No. 587153
; GENERAL INFORMATION:
; APPLICANT: HARRIS, Robert B.
; APPLICANT: SOBEL, Michael
; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESS: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,592
; FILING DATE: 11-JUN-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm K.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 006338-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
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; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,592
; FILING DATE: 11-JUN-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm K.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 006338-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-660-592-2

Query Match          57.1%; Score 44; DB 2; Length 16;
Best Local Similarity 90.9%; Pred. No. 0.91;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 ARKAARARR 11
      |||:|:|:|:|
Db      5 ARRAARR 15

RESULT 13
US-08-660-592-3
; Sequence 3, Application US/08660592
; Patent No. 587153
; GENERAL INFORMATION:
; APPLICANT: HARRIS, Robert B.
; APPLICANT: SOBEL, Michael
; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESS: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,592
; FILING DATE: 11-JUN-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm K.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 006338-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
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STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-660-592-3

Query Match 57.1%; Score 44; DB 2; Length 16;
Best Local Similarity 90.9%; Pred. No. 0.91;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ARKAAARAAR 11
Db 5 ARRAARAAR 15

RESULT 14

US-08-660-592-7
Sequence 7, Application US/08660592
Patent No. 587153
GENERAL INFORMATION:
APPLICANT: HARRIS, Robert B.
APPLICANT: SOBEL, Michael
TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
STREET: P.O. Box 1404
CITY: Alexandria
STATE: Virginia
COUNTRY: United States
ZIP: 22313-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/660,592
FILING DATE: 11-JUN-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: McGowan, Malcolm K.
REGISTRATION NUMBER: 39,300
REFERENCE/DOCKET NUMBER: 006338-001
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-660-592-7

Query Match 57.1%; Score 44; DB 2; Length 16;
Best Local Similarity 90.9%; Pred. No. 0.91;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ARKAAARAAR 11
Db 5 ARRAARAAR 15

RESULT 15

US-08-660-592-8
Sequence 8, Application US/08660592
Patent No. 587153
GENERAL INFORMATION:
APPLICANT: HARRIS, Robert B.
APPLICANT: SOBEL, Michael
TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
STREET: P.O. Box 1404
CITY: Alexandria
STATE: Virginia
COUNTRY: United States
ZIP: 22313-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/660,592
FILING DATE: 11-JUN-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: McGowan, Malcolm K.
REGISTRATION NUMBER: 39,300
REFERENCE/DOCKET NUMBER: 006338-001
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-660-592-8

Query Match 57.1%; Score 44; DB 2; Length 16;
Best Local Similarity 90.9%; Pred. No. 0.91;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ARKAAARAAR 11
Db 5 ARRAARAAR 15

Search completed: August 17, 2004, 16:14:32
Job time : 13.9604 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 25.2277 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-35

Perfect score: 77

Sequence: 1 ARKKAARAARRKACRA 16

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Minimum DB seq length: 0

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Listing first 45 summaries

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Published Applications AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	62.3	565	15	US-10-369-493-7651 Sequence 7651, Ap
2	47	61.0	19	12	US-09-905-691-3 Sequence 3, Appl
3	46	59.7	303	16	US-10-437-963-193124 Sequence 193124,
4	45	58.4	396	16	US-10-437-963-150694 Sequence 150694,
5	45	58.4	1593	12	US-10-282-122A-65262 Sequence 65262, A
6	44	57.1	16	12	US-09-905-691-1 Sequence 1, Appl
7	44	57.1	77	12	US-10-282-122A-45695 Sequence 45695, A
8	44	57.1	77	12	US-10-282-122A-46600 Sequence 46600, A
9	44	57.1	164	12	US-10-425-114-62125 Sequence 62125, A
10	44	57.1	169	12	US-10-425-114-62126 Sequence 62126, A
11	44	57.1	169	12	US-10-425-114-62127 Sequence 62127, A
12	44	57.1	210	16	US-10-437-963-148098 Sequence 148098,
13	44	57.1	533	10	US-09-847-102A-39 Sequence 39, Appl
14	44	57.1	591	10	US-09-847-102A-58 Sequence 58, Appl
15	44	57.1	591	14	US-10-285-976-55 Sequence 55, Appl

Sequence 36, Appl
Sequence 128, App
Sequence 35, Appl
Sequence 128, App
Sequence 423, App
Sequence 430, App
Sequence 6, Appl
Sequence 12156, A
Sequence 4530, Ap
Sequence 105083, A
Sequence 37348, A
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Sequence 175682,
Sequence 46374, A
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Sequence 49998, A
Sequence 43089, A
Sequence 50517, A
Sequence 129, App
Sequence 129, App
Sequence 59, Appl
Sequence 126, App

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591 15 US-10-099-322-128
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72 11 US-09-864-408A-4530
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131 16 US-10-437-963-18265
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209 16 US-10-437-963-175682
233 12 US-10-425-114-46374
256 16 US-10-437-963-162910
318 16 US-10-437-963-123120
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549 15 US-10-044-564-129
591 10 US-09-847-102A-59
592 15 US-10-099-322-126

ALIGNMENTS

RESULT 1

US-10-369-493-7651
; Sequence 7651, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 7651
; LENGTH: 565
; TYPE: PRT
; ORGANISM: Burkholderia cepacia
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(565)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-7651

Query Match 62.3%; Score 48; DB 15; Length 565;

Best Local Similarity 68.8%; Pred. No. 49;

Matches 11; Conservative 2; Mismatches 1; Indels 2; Gaps 1;

QY 1 ARKKAARAARRKACRA 16

Db 367 ARER--RAARRGCRA 380

RESULT 2

US-09-905-691-3
; Sequence 3, Application US/09905691
; Publication No. US20020164329A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Robert B.
; APPLICANT: Wolz, Russell L.
; APPLICANT: Wolz, Gabriella
; TITLE OF INVENTION: Adsorption and Removal of Endotoxin from Physiological
; TITLE OF INVENTION: Fluids Using Cationic Helix Peptides
; FILE REFERENCE: 066338-017
; CURRENT APPLICATION NUMBER: US/09/905,691
; CURRENT FILING DATE: 2001-02-14
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Arginine Helix #2
US-09-905-691-3

Query Match 61.0%; Score 47; DB 12; Length 19;
Best Local Similarity 84.6%; Pred. No. 3.1;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARKKAARAAKKA 13
||| |||||
Db 5 ARRAAARAA 17

RESULT 3

US-10-437-963-193124
; Sequence 193124, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 193124
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_89291C.1.pap
US-10-437-963-193124

Query Match 59.7%; Score 46; DB 16; Length 303;
Best Local Similarity 56.2%; Pred. No. 54;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKKAARAAKKA 16
||| |||||
Db 264 ASRRGAARGSCRA 279

RESULT 4

US-10-437-963-150694
; Sequence 150694, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 150694
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(396)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_50908C.1.pap
US-10-437-963-150694

Query Match 58.4%; Score 45; DB 16; Length 396;
Best Local Similarity 57.1%; Pred. No. 96;
Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARKKAARAAKKA 14
||| |||||
Db 95 ARRAASSRRRC 108

RESULT 5

US-10-282-122A-65262
; Sequence 65262, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09

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; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45695
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Bacillus anthracis
US-10-282-122A-45695

Query Match          57.1%; Score 44; DB 12; Length 77;
Best Local Similarity 64.3%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      1  ARKKAARAKKAC 14
      |||||
Db      2  AGRKGGRKRVKVC 15

RESULT 8
US-10-282-122A-46600
; Sequence 46600, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27

```

; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46600
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Bacillus anthracis
US-10-282-122A-46600

Query Match 57.1%; Score 44; DB 12; Length 77;
Best Local Similarity 64.3%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 ARKKAARAKKAC 14
||| ||| |||
Db 2 AGKGGRAKRRKVC 15

RESULT 9
US-10-425-114-62125
; Sequence 62125, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 62125
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3969-011-FLI_FLI.pep
US-10-425-114-62125

Query Match 57.1%; Score 44; DB 12; Length 164;
Best Local Similarity 56.2%; Pred. No. 59;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKKAARAKKACRA 16
||| ||| |||
Db 62 ARGAASARTPCRS 77

RESULT 10
US-10-425-114-62126
; Sequence 62126, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114

; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 62126
; LENGTH: 169
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3732-053-B9_FLI.pep
US-10-425-114-62126

Query Match 57.1%; Score 44; DB 12; Length 169;
Best Local Similarity 56.2%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKKAARAKKACRA 16
||| ||| |||
Db 62 ARGAASARTPCRS 77

RESULT 11
US-10-425-114-62127
; Sequence 62127, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 62127
; LENGTH: 169
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3596-022-E4_FLI.pep
US-10-425-114-62127

Query Match 57.1%; Score 44; DB 12; Length 169;
Best Local Similarity 56.2%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKKAARAKKACRA 16
||| ||| |||
Db 62 ARGAASARTPCRS 77

RESULT 12
US-10-437-963-148098
; Sequence 148098, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 148098

```
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(210)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_48563C.1.pep
US-10-437-963-148098

Query Match      57.1%; Score 44; DB 16; Length 210;
Best Local Similarity 53.3%; Pred. No. 74;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      2 RKKAARARRKACRA 16
Db      69 RRCVRSAXRKAACA 83

RESULT 13
US-09-847-102A-39
; Sequence 39, Application US/09847102A
; Publication No. US2003004409A1
; GENERAL INFORMATION:
; APPLICANT: University of California
; APPLICANT: Carson, Dennis A.
; APPLICANT: Corr, Maripat
; APPLICANT: Rhee, Chae-Seo
; APPLICANT: Lorenzo, Leoni M.
; APPLICANT: Malini, Sen
; TITLE OF INVENTION: IMMUNOLOGIC COMPOSITIONS AND METHODS FOR
; STUDYING AND TREATING CANCERS EXPRESSING FRIZZLED ANTIGENS
; FILE REFERENCE: 22000-20629.00
; CURRENT APPLICATION NUMBER: US/09/847,102A
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 533
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-847-102A-39

Query Match      57.1%; Score 44; DB 10; Length 533;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 10; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 RKKAARARRKACRA 16
Db      519 RKIAAGRAKACRA 533

RESULT 14
US-09-847-102A-58
; Sequence 58, Application US/09847102A
; Publication No. US2003004409A1
; GENERAL INFORMATION:
; APPLICANT: University of California
; APPLICANT: Carson, Dennis A.
; APPLICANT: Corr, Maripat
; APPLICANT: Rhee, Chae-Seo
; APPLICANT: Lorenzo, Leoni M.
; APPLICANT: Malini, Sen
; TITLE OF INVENTION: IMMUNOLOGIC COMPOSITIONS AND METHODS FOR
; STUDYING AND TREATING CANCERS EXPRESSING FRIZZLED ANTIGENS
; FILE REFERENCE: 22000-20629.00
; CURRENT APPLICATION NUMBER: US/09/847,102A
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 591
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```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-847-102A-58

Query Match      57.1%; Score 44; DB 10; Length 591;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 10; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 RKKAARARRKACRA 16
Db      543 RKIAAGRAKACRA 557

RESULT 15
US-10-285-976-55
; Sequence 55, Application US/10285976
; Publication No. US20030165500A1
; GENERAL INFORMATION:
; APPLICANT: Rhee, Chae-Seo
; APPLICANT: Malini, Sen
; APPLICANT: Wu, Christina
; APPLICANT: Leoni, Lorenzo M.
; APPLICANT: Corr, Maripat
; APPLICANT: Carson, Dennis A.
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Wnt and Frizzled Receptors as Targets for Immunotherapy
; FILE REFERENCE: 023070-130220US
; CURRENT APPLICATION NUMBER: US/10/285,976
; CURRENT FILING DATE: 2002-11-01
; PRIOR APPLICATION NUMBER: US 60/287,995
; PRIOR FILING DATE: 2001-05-01
; PRIOR APPLICATION NUMBER: WO PCT/US02/13802
; PRIOR FILING DATE: 2002-05-01
; NUMBER OF SEQ ID NOS: 232
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 55
; LENGTH: 591
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human frizzled9 (Fzd9)
US-10-285-976-55

Query Match      57.1%; Score 44; DB 14; Length 591;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 10; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 RKKAARARRKACRA 16
Db      543 RKIAAGRAKACRA 557
```

Search completed: August 17, 2004, 17:19:18
Job time : 27.2277 secs

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/557,309B
FILING DATE: 14-NOV-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.422
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 186 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-557-309B-43

Query Match 53.1%; Score 60; DB 2; Length 186;
Best Local Similarity 60.9%; Pred. No. 0.52;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 RCACKRAARAARAAKRAAKKRA 24
DB 89 REAEERARREAEKRRARREAKERA 111

RESULT 3
US-08-834-306-43
Sequence 43, Application US/08834306
Patent No. 6054135
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Lodes, Michael J.
APPLICANT: Houghton, Raymond L.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION OF T
NUMBER OF SEQUENCES: 65
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/834,306
FILING DATE: 15-APR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.422C1
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 186 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-834-306-43

Query Match 53.1%; Score 60; DB 3; Length 186;
Best Local Similarity 60.9%; Pred. No. 0.52;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 RCACKRAARAARAAKRAARAARAAKKEA 24
DB 89 REAEERARREAEKRRARREAKERA 111

RESULT 4
US-08-993-674A-43
Sequence 43, Application US/08993674A
Patent No. 6228372
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Lodes, Michael J.
APPLICANT: Houghton, Raymond L.
APPLICANT: Smith, John M.
APPLICANT: McNeill, Patricia D.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION OF T
NUMBER OF SEQUENCES: 81
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993,674A
FILING DATE: 18-DEC-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.422C2
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 186 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-993-674A-43

Query Match 53.1%; Score 60; DB 3; Length 186;
Best Local Similarity 60.9%; Pred. No. 0.52;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 RCACKRAARAARAAKRAARAARAAKKEA 24
DB 89 REAEERARREAEKRRARREAKERA 111

RESULT 5
US-09-256-976-43
Sequence 43, Application US/09256976
Patent No. 6419933
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Lodes, Michael J.
APPLICANT: Houghton, Raymond L.
APPLICANT: Smith, John M.

APPLICANT: McNeill, Patricia D.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION
OF T. CRUZI INFECTION
FILE REFERENCE: 210121.422C3
CURRENT APPLICATION NUMBER: US/09/256,976
CURRENT FILING DATE: 1999-02-24
NUMBER OF SEQ ID NOS: 95
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 43
LENGTH: 186
TYPE: PRT
ORGANISM: Trypanosoma cruzi
US-09-256-976-43

Query Match 53.1%; Score 60; DB 4; Length 186;
Best Local Similarity 60.9%; Pred. No. 0.52;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 RCACKRAARAARAKKRAAARAKKRA 24
DB 89 REAERARREARREARREARREAR 111

RESULT 6
US-09-041-889-27
Sequence 27, Application US/09041889
Patent No. 6033864
GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
Ulcerative Colitis, and Clinical Subtypes Thereof, Using
Microbial UC-PANCA antigens
TITLE OF INVENTION: Microbial UC-PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,889
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/837,058
FILING DATE: 11-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-889-27

Query Match 48.7%; Score 55; DB 3; Length 214;
Best Local Similarity 54.2%; Pred. No. 2.6;
Matches 13; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARCACKRAARAARAKKRAAARAKKRA 24

DB 108 ASAAKKVAKKAPAKKATKAARAKKAA 131

RESULT 7
US-09-417-264-27
Sequence 27, Application US/09417264
Patent No. 6537768
GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
Ulcerative Colitis, and Clinical Subtypes Thereof, Using
Microbial UC-PANCA antigens
TITLE OF INVENTION: Microbial UC-PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,889
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-417-264-27

Query Match 48.7%; Score 55; DB 4; Length 214;
Best Local Similarity 54.2%; Pred. No. 2.6;
Matches 13; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARCACKRAARAARAKKRAAARAKKRA 24
DB 108 ASAAKKVAKKAPAKKATKAARAKKAA 131

RESULT 8
US-08-152-488-10
Sequence 10, Application US/08152488
Patent No. 5534619
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue


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;
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-303-025-10
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; Best Local Similarity 53.8%; Pred. No. 0.72;
; Matches 14; Conservative 5; Mismatches 5; Indels 1;
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; US-08-303-025-11
; Sequence 11, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
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; COMPUTER: IBM PC compatible
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; SOFTWARE: WordPerfect 6.1; ASCII (DOS) Text
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; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
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; FILING DATE: 08-SEPT-1994
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Job time : 16.9406 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-36

Perfect score: 113

Sequence: 1 ARCAKKAARAARAKRAAKRA 24

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Published Applications AA:*
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 - 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	66	58.4	347	12	US-10-282-122A-66237 Sequence 66237, A
2	66	58.4	347	14	US-10-127-032-120 Sequence 120, App
3	66	58.4	372	12	US-10-282-122A-68109 Sequence 68109, A
4	64	56.6	336	12	US-10-282-122A-69962 Sequence 69962, A
5	61	54.0	428	12	US-10-282-122A-55748 Sequence 55748, A
6	58.5	51.8	21	12	US-10-169-613-13 Sequence 13, Appl
7	58	51.3	104	12	US-10-393-449-36 Sequence 36, Appl
8	58	51.3	104	12	US-10-393-449-86 Sequence 86, Appl
9	58	51.3	104	14	US-10-177-725-36 Sequence 36, Appl
10	58	51.3	827	16	US-10-177-725-86 Sequence 86, Appl
11	58	51.3	206	14	US-10-437-963-152005 Sequence 152005
12	57	50.4	261	14	US-10-425-007-33 Sequence 33, Appl
13	57	50.4	281	12	US-10-226-114-69952 Sequence 69952, A
14	57	50.4	526	12	US-10-282-122A-53742 Sequence 53742, A
15	57	50.4	636	12	US-10-425-114-37076 Sequence 37076, A

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17	56	49.6	105	16	US-10-437-963-135394 Sequence 135394, A
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27	53	46.9	67	12	US-10-393-449-104 Sequence 104, App
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ALIGNMENTS

RESULT 1
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; Sequence 66237, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:

- ; APPLICANT: Wang, Liangsu
- ; APPLICANT: Zamudio, Carlos
- ; APPLICANT: Malone, Cheryl
- ; APPLICANT: Haselbeck, Robert
- ; APPLICANT: Chisen, Kari
- ; APPLICANT: Zyskind, Judith
- ; APPLICANT: Wall, Daniel
- ; APPLICANT: Trawick, John
- ; APPLICANT: Carr, Grant
- ; APPLICANT: Yamamoto, Robert
- ; APPLICANT: Forsyth, R.
- ; APPLICANT: Xu, H.
- ; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
- ; FILE REFERENCE: ELITRA.034A
- ; CURRENT APPLICATION NUMBER: US/10/282,122A
- ; CURRENT FILING DATE: 2003-02-20
- ; PRIOR APPLICATION NUMBER: 60/191,078
- ; PRIOR FILING DATE: 2000-03-21
- ; PRIOR APPLICATION NUMBER: 60/206,848
- ; PRIOR FILING DATE: 2000-05-23
- ; PRIOR APPLICATION NUMBER: 60/207,727
- ; PRIOR FILING DATE: 2000-05-26
- ; PRIOR APPLICATION NUMBER: 60/230,335
- ; PRIOR FILING DATE: 2000-09-06
- ; PRIOR APPLICATION NUMBER: 60/230,347
- ; PRIOR FILING DATE: 2000-09-09
- ; PRIOR APPLICATION NUMBER: 60/242,578
- ; PRIOR FILING DATE: 2000-10-23
- ; PRIOR APPLICATION NUMBER: 60/253,625
- ; PRIOR FILING DATE: 2000-11-27
- ; PRIOR APPLICATION NUMBER: 60/257,931
- ; PRIOR FILING DATE: 2000-12-22
- ; PRIOR APPLICATION NUMBER: 60/267,636

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; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
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; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
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; Publication No. US20030113742A1
; GENERAL INFORMATION:
; APPLICANT: Whiteley, Marvin
; APPLICANT: Bangera, M. Gita
; APPLICANT: Lory, Stephen
; APPLICANT: Greenberg, Everett Peter
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
; TITLE OF INVENTION: BIOFILM FORMATION
; FILE REFERENCE: UIZ-070CP
; CURRENT APPLICATION NUMBER: US/10/127,032
; CURRENT FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/285,190
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; PRIOR APPLICATION NUMBER: US 60/344,142
; PRIOR FILING DATE: 2001-10-24
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; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Chlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.

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; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
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; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 68109
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Pseudomonas putida
US-10-282-122A-68109

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```

Query Match      58.4%; Score 66; DB 12; Length 372;
Best Local Similarity 62.5%; Pred. No. 0.74;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

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QY 1 ARCAKRAARAARAKKRAAARAKKRA 24
DB 189 AEDAKKAAEAKKAAEADAKKKA 212

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RESULT 4
US-10-282-122A-69962
; Sequence 69962, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Chlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.

```

```

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09

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;; PRIOR APPLICATION NUMBER: 60/242,578
;; PRIOR FILING DATE: 2000-10-23
;; PRIOR APPLICATION NUMBER: 60/253,625
;; PRIOR FILING DATE: 2000-11-27
;; PRIOR APPLICATION NUMBER: 60/257,931
;; PRIOR FILING DATE: 2000-12-22
;; PRIOR APPLICATION NUMBER: 60/267,636
;; PRIOR FILING DATE: 2001-02-09
;; PRIOR APPLICATION NUMBER: 60/269,308
;; PRIOR FILING DATE: 2001-02-16
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 78614
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 69962
;; LENGTH: 336
;; TYPE: PRT
;; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match 56.6%; Score 64; DB 12; Length 336;
Best Local Similarity 65.7%; Pred. No. 1.2;
Matches 14; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 4 AKKRAAARAAKRAAARAAKRA 24
Db 174 AKKRAEDAKKRAEDAKKRA 194

RESULT 5
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748

;; LENGTH: 428
;; TYPE: PRT
;; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match 54.0%; Score 61; DB 12; Length 428;
Best Local Similarity 62.5%; Pred. No. 3.7;
Matches 15; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 1 AECAKKRAARAARAAKRAAARAAKRA 24
Db 212 AEAARKAAQAEAKKAAAEAKKAA 235

RESULT 6
US-10-169-613-13
; Sequence 13, Application US/10169613
; Publication No. US20030086959A1
; GENERAL INFORMATION:
; APPLICANT: Redkdal, Oystein
; APPLICANT: Svendsen, John
; APPLICANT: Wikman, Mari
; APPLICANT: Soltstad, Torese
; APPLICANT: Yang, Nannan
; TITLE OF INVENTION: Methods of peptide preparation
; FILE REFERENCE: 1181-258
; CURRENT APPLICATION NUMBER: US/10/169,613
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: PCT/GB00/03378
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: GB 0005702.6
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/GB99/02851
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: antimicrobial peptide
US-10-169-613-13

Query Match 51.8%; Score 58.5; DB 12; Length 21;
Best Local Similarity 71.4%; Pred. No. 0.48;
Matches 15; Conservative 3; Mismatches 2; Indels 1; Gaps 1;

Qy 4 AKKRAARAARAAKRAAARAAKRA 24
Db 2 AAKKAAKAAK-AAKAAKAA 21

RESULT 7
US-10-393-449-36
; Sequence 36, Application US/10393449
; Publication No. US20030224412A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
; FILE REFERENCE: RIGL-007CIP3
; CURRENT APPLICATION NUMBER: US/10/393,449
; PRIOR FILING DATE: 2003-03-18
; PRIOR APPLICATION NUMBER: US 10/177,725
; PRIOR FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn version 3.1

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; SEQ ID NO 36
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-393-449-36

Query Match      51.3%; Score 58; DB 12; Length 104;
Best Local Similarity 60.9%; Pred. No. 2.4;
Matches 14; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARCAKRAARAARAKKRAARAARAKKR 23
Db 82 AAARKKRAAAAAAARAKK 104

RESULT 8
US-10-393-449-86
; Sequence 86, Application US/10393449
; Publication No. US20030224412A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
; FILE REFERENCE: RIGL-007CIP3
; CURRENT APPLICATION NUMBER: US/10/393,449
; CURRENT FILING DATE: 2003-03-18
; PRIOR APPLICATION NUMBER: US 10/177,725
; PRIOR FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 86
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
; NAME/KEY: MISC FEATURE
; LOCATION: (37)..(68)
; OTHER INFORMATION: "Xaa" at positions 37-39, 41-43, 45-46, 48-50, 52-53, 55-57, 59-6
; OTHER INFORMATION: 1, 63-64 and 66-68 can be any amino acid
US-10-393-449-86

Query Match      51.3%; Score 58; DB 12; Length 104;
Best Local Similarity 60.9%; Pred. No. 2.4;
Matches 14; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARCAKRAARAARAKKRAARAARAKKR 23
Db 82 AAARKKRAAAAAAARAKK 104

RESULT 9
US-10-177-725-36
; Sequence 36, Application US/10177725
; Publication No. US20030143562A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
; FILE REFERENCE: A-66900-4/RMS/AMS
; CURRENT APPLICATION NUMBER: US/10/177,725
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
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; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-177-725-36

Query Match      51.3%; Score 58; DB 14; Length 104;
Best Local Similarity 60.9%; Pred. No. 2.4;
Matches 14; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARCAKRAARAARAKKRAARAARAKKR 23
Db 82 AAARKKRAAAAAAARAKK 104

RESULT 10
US-10-177-725-86
; Sequence 86, Application US/10177725
; Publication No. US20030143562A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT SC
; FILE REFERENCE: A-66900-4/RMS/AMS
; CURRENT APPLICATION NUMBER: US/10/177,725
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 86
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
; NAME/KEY: MISC FEATURE
; LOCATION: (37)..(68)
; OTHER INFORMATION: "Xaa" at positions 37-39, 41-43, 45-46, 48-50, 52-53, 55-57, 59-6
; OTHER INFORMATION: 1, 63-64 and 66-68 can be any amino acid
US-10-177-725-86

Query Match      51.3%; Score 58; DB 14; Length 104;
Best Local Similarity 60.9%; Pred. No. 2.4;
Matches 14; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARCAKRAARAARAKKRAARAARAKKR 23
Db 82 AAARKKRAAAAAAARAKK 104

RESULT 11
US-10-437-963-152005
; Sequence 152005, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
```

```

; SEQ ID NO 69952
; LENGTH: 281
; TYPE: PRT
; ORGANISM: Zea mays subsp. mexicana
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMR0TEOSINTE070B10_FLI.pep
US-10-425-114-69952

Query Match          50.4%; Score 57; DB 12; Length 281;
Best Local Similarity 56.5%; Pred. No. 8.1;
Matches 13; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

Cy      2 RCAKRAARAAKKAARAAAKKRA 24
      |||:|||||:|
Db      1 RAAARAAQQAARAAKRAAVERA 23

RESULT 14
US-10-282-122A-53742
; Sequence 53742, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53742
; LENGTH: 526
; TYPE: PRT
; ORGANISM: Corynebacterium diptheriae
US-10-282-122A-53742

Query Match          50.4%; Score 57; DB 12; Length 526;
Best Local Similarity 56.5%; Pred. No. 14;
Matches 13; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

Cy      2 RCAKRAARAAKKAARAAAKKRA 24
      |||:|||||:|

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Db 90 KAAKTAKKTAKKVAKKAUKTA 112

RESULT 15

US-10-425-114-37076

; Sequence 37076, Application US/10425114

; Publication No. US20040034888A1

; GENERAL INFORMATION:

; APPLICANT: Liu, Jingdong

; APPLICANT: Zhou, Yihua

; APPLICANT: Kovalic, David K.

; APPLICANT: Screen, Steven E

; APPLICANT: Tabaska, Jack E

; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with

; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53313)B

; CURRENT APPLICATION NUMBER: US/10/425,114

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 73128

; SEQ ID NO 37076

; LENGTH: 636

; TYPE: PRT

; ORGANISM: Zea mays

; FEATURE:

; OTHER INFORMATION: Clone ID: 700073159_FLI.pep

US-10-425-114-37076

Query Match 50.4%; Score 57; DB 12; Length 636;

Best Local Similarity 56.5%; Pred. No. 17;

Matches 13; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 2 RCARKRAARAKKRAARAKKRA 24

Db 356 RAAAEAAQOEAKKRAEAAVERA 378

Search completed: August 17, 2004, 17:19:18

Job time : 37.8416 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 8.95545 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-37

Perfect score: 86

Sequence: 1 ARAKAAARAKAARCKA 18

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents.AA.*

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6: /cgn2_6/ptodata/2/iaa/backfiles.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	50	58.1	162	4	US-09-252-991A-17602
2	49	57.0	488	4	US-09-252-991A-24759
3	48	55.8	134	4	US-09-252-991A-30158
4	48	55.8	213	4	US-09-252-991A-29365
5	47	54.7	360	4	US-09-252-991A-20193
6	47	54.7	907	4	US-09-252-991A-24114
7	46	53.5	200	4	US-09-252-991A-21290
8	46	53.5	1007	4	US-09-252-991A-18614
9	45	52.3	177	4	US-09-252-991A-29848
10	45	52.3	218	4	US-09-252-991A-26955
11	45	52.3	1213	3	US-09-413-814-79
12	44	51.2	145	4	US-09-252-991A-19419
13	44	51.2	156	4	US-09-252-991A-25392
14	44	51.2	189	4	US-09-252-991A-18969
15	44	51.2	216	4	US-09-252-991A-22665
16	44	51.2	218	3	US-09-041-889-4
17	44	51.2	218	3	US-08-837-058-4
18	44	51.2	218	4	US-09-417-264-4
19	44	51.2	280	4	US-08-252-991A-22385
20	44	51.2	398	4	US-08-252-991A-26127
21	44	51.2	844	4	US-08-252-991A-27184
22	43.5	50.6	146	4	US-09-252-991A-20877
23	43.5	50.6	378	4	US-09-252-991A-26944
24	43	50.0	38	2	US-08-436-703B-17
25	43	50.0	39	2	US-08-436-703B-5
26	43	50.0	118	4	US-09-252-991A-28465
27	43	50.0	142	4	US-09-252-991A-32258

ALIGNMENTS

RESULT 1

US-09-252-991A-17602

; Sequence 17602, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 17602

; LENGTH: 162

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-17602

Query Match 58.1%; Score 50; DB 4; Length 162;

Best Local Similarity 55.6%; Pred. No. 1.9;

Matches 10; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARAKAAARAKAARCKA 18

DB 96 AHRSAARAKAARCKA 113

RESULT 2

US-09-252-991A-24759

; Sequence 24759, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 24759

; LENGTH: 488

; TYPE: PRT

Sequence 20099, A
Sequence 27204, A
Sequence 17647, A
Sequence 29127, A
Sequence 27920, A
Sequence 26224, A
Sequence 25699, A
Sequence 23, Appl
Sequence 31292, A
Sequence 24715, A
Sequence 27377, A
Sequence 21981, A
Sequence 30704, A
Sequence 16820, A
Sequence 20302, A
Sequence 28696, A
Sequence 26049, A
Sequence 21827, A

28 43 50.0 155 4 US-09-252-991A-20099
29 43 50.0 197 4 US-09-252-991A-27204
30 43 50.0 200 4 US-09-252-991A-17647
31 43 50.0 230 4 US-09-252-991A-29127
32 43 50.0 280 4 US-09-252-991A-27920
33 43 50.0 305 4 US-09-252-991A-26224
34 43 50.0 306 4 US-09-252-991A-25699
35 43 50.0 346 3 US-09-352-980-23
36 42.5 49.4 330 4 US-09-252-991A-31292
37 42 48.8 126 4 US-09-252-991A-24715
38 42 48.8 135 4 US-09-252-991A-27377
39 42 48.8 166 4 US-09-252-991A-21981
40 42 48.8 299 4 US-09-252-991A-30704
41 42 48.8 338 4 US-09-252-991A-16820
42 42 48.8 341 4 US-09-252-991A-20302
43 42 48.8 411 4 US-09-252-991A-28696
44 42 48.8 531 4 US-09-252-991A-26049
45 42 48.8 1093 4 US-09-252-991A-21827

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; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24759

Query Match          57.0%; Score 49; DB 4; Length 488;
Best Local Similarity 64.7%; Pred. No. 7.5;
Matches 11; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRCKA 18
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Db 70 RPAARARAGRRRCVA 86

RESULT 3
US-09-252-991A-30158
; Sequence 30158, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30158
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30158

Query Match          55.8%; Score 48; DB 4; Length 134;
Best Local Similarity 58.8%; Pred. No. 3;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCK 17
   |||||:|||||
Db 64 ARRCAAARRSARRAR 80

RESULT 4
US-09-252-991A-29365
; Sequence 29365, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29365
; LENGTH: 213
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29365

Query Match          55.8%; Score 48; DB 4; Length 213;
Best Local Similarity 52.9%; Pred. No. 4.7;
Matches 9; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCK 17
   |||||:|||||
Db 44 ARRVRRRRPAPARRC 60

RESULT 5
US-09-252-991A-20193
; Sequence 20193, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20193
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20193

Query Match          54.7%; Score 47; DB 4; Length 360;
Best Local Similarity 52.9%; Pred. No. 11;
Matches 9; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRCKA 18
   |||||:|||||
Db 16 RRRRSARRPSGRCRCAA 32

RESULT 6
US-09-252-991A-24114
; Sequence 24114, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24114
; LENGTH: 907
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24114

Query Match          54.7%; Score 47; DB 4; Length 907;
Best Local Similarity 52.9%; Pred. No. 26;
Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCK 17
   |||||:|||||
Db 95 ARRRRRRSRRSARRAR 111

RESULT 7
US-09-252-991A-21290
; Sequence 21290, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
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; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21290
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-253-991A-21290

```

Query Match	53.5%	Score 46;	DB 4;	Length 200;
Best Local Similarity	69.2%;	Pred. NO. 8.6;		
Matches	9;	Conservative	2;	Mismatches 2;
				Indels 0;
				Caps 0;

Qy 4 AKAARRAKAARRC 16
|:|:|:|:|:|
Db 59 APAPRAARRC 71

RESULT 8
US-09-252-991A-18614
; Sequence 18614, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18614
; LENGTH: 1007
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-18614

```
Query Match      53.5%; Score 46; DB 4; Length 1007;
Best Local Similarity 55.6%; Pred. No. 40;
Matches 10: Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

Qy 1 ARRAKAARRAKAARRCKA 18
||| ||| ||| |||
Db 14 ARRCGARSRTMARCSA 31

RESULT 9
 US-09-252-991A-29848
 ; Sequence 29848, Application US/09252991A
 ; Patent NO. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Marc J. Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 107196.136
 ; CURRENT APPLICATION NUMBER: US/09/252.991A
 ; CURRENT FILING DATE: 1999-02-18
 ; PRIOR APPLICATION NUMBER: US 60/074,788
 ; PRIOR FILING DATE: 1998-02-18
 ; PRIOR APPLICATION NUMBER: US 60/094,190
 ; PRIOR FILING DATE: 1998-07-27
 ; NUMBER OF SEQ ID NOS: 33142
 ; SEQ ID NO 29848
 ; LENGTH: 177
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas aeruginosa
 ; US-09-252-991A-29848

Query Match 52.3%; Score 45; DB 4; Length 177;
Best Local Similarity 53.3%; Pred. NO. 11;
Matches 8; Conservative 4; Mismatches 3; Indels

Qy 2 RRAKAARRAKAARRC 16
||::||:||||
db 18 RESRSCRPARARRC 32

RESULT 10
US-09-252-991A-26955
; Sequence 26955, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26955
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-26955

Query Match	52.3%;	Score 45;	DB 4;	Length 218;
Best Local Similarity	47.1%;	Pred. No. 13;		
Matches	8;	Conservative	5;	Mismatches
			4;	Indels
				Gaps
				0;

```

Qy      1 ARRAKAAARRAKAARRCK 17
        ||||: : :|||:
Db     32 ARRAPPSARRRSARRCR 48

```

```

RESULT 11
US-09-413-814-79
; Sequence 79, Application US/09413814
; Patent No. 6225064
; GENERAL INFORMATION:
; APPLICANT: Gesellschaft fuer Biotechnologische Forschung mbH
; APPLICANT: Bristol-Myers Squibb, Co.
; APPLICANT: Beyer, Stefan
; APPLICANT: Bloecker, Helmut
; APPLICANT: Brandt, Petra
; APPLICANT: Cino, Paul M
; APPLICANT: Dougherty, Brian A
; APPLICANT: Goldberg, Steven L
; APPLICANT: Hofie, Gerhard
; APPLICANT: Mueller, Joachim
; APPLICANT: Reichenbach, Hans
; TITLE OF INVENTION: DNA sequences for enzymatic synthesis of
; TITLE OF INVENTION: heteropolypeptide compounds
; FILE REFERENCE: PCT/US 99/23535
; CURRENT APPLICATION NUMBER: US/09/413,814
; CURRENT FILING DATE: 1999-10-07
; EARLIER APPLICATION NUMBER: DE 198 46 493.2
; EARLIER FILING DATE: 1998-10-09
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 79
; LENGTH: 1213
; TYPE: PRT
; ORGANISM: Sorangium cellulosum
US-09-413-814-79

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Query Match 52.3%; Score 45; DB 3; Length 1213;

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Best Local Similarity 83.3%; Pred. No. 67;
Matches 10; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 4 AKARRAKAARR 15
   |:|||||:|
Db 113 ARARRAPARR 124

RESULT 12
US-09-252-991A-19419
; Sequence 19419, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 19419
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19419

Query Match 51.2%; Score 44; DB 4; Length 145;
Best Local Similarity 60.0%; Pred. No. 12;
Matches 12; Conservative 1; Mismatches 5; Indels 5; Gaps 1;

QY 1 ARR--AKARRAKAARRCKA 18
   |||:|||||:|
Db 13 ARRHSPAAARRAPARRACKA 32

RESULT 13
US-09-252-991A-25392
; Sequence 25392, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 25392
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25392

Query Match 51.2%; Score 44; DB 4; Length 156;
Best Local Similarity 52.9%; Pred. No. 13;
Matches 9; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 RRAXAARRAKAARRCKA 18
   |:|||||:|
Db 54 RTARSANSAPAARRCKA 70

RESULT 14
US-09-252-991A-18969
; Sequence 18969, Application US/09252991A
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; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18969
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18969

Query Match 51.2%; Score 44; DB 4; Length 189;
Best Local Similarity 47.1%; Pred. No. 16;
Matches 8; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 RRAXAARRAKAARRCKA 18
   |:|||||:|
Db 6 RNRGTGRRARTARQRCVA 22

RESULT 15
US-09-252-991A-22665
; Sequence 22665, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22665
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22665

Query Match 51.2%; Score 44; DB 4; Length 216;
Best Local Similarity 55.6%; Pred. No. 18;
Matches 10; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARRAAARRAKAARRCKA 18
   |:|||||:|
Db 106 ARRTAPARCSAARRCAA 123

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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 28.3812 Seconds
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199.100 Million cell updates/sec

Title: US-09-496-391-37
Perfect score: 86
Sequence: 1 ARAKARRAKARRCKA 18

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:

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6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
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8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	50	58.1	380	16 US-10-437-963-163328	Sequence 163328,
2	49	57.0	620	16 US-10-437-963-160528	Sequence 160528,
3	48	55.8	1269	16 US-10-437-963-184740	Sequence 184740,
4	47.5	105	16	US-10-437-963-178731	Sequence 178731,
5	45	52.3	88	16 US-10-437-963-185672	Sequence 185672,
6	45	52.3	113	16 US-10-437-963-202539	Sequence 202539,
7	45	52.3	213	13 US-10-004-717-21	Sequence 21, Appl
8	45	52.3	240	16 US-10-437-963-202417	Sequence 202417,
9	45	52.3	264	16 US-10-437-963-190754	Sequence 190754,
10	45	52.3	289	16 US-10-437-963-190954	Sequence 190954,
11	45	52.3	415	16 US-10-437-963-115996	Sequence 115996,
12	45	52.3	670	16 US-10-437-963-190753	Sequence 190753,
13	45	52.3	1504	16 US-10-437-963-189251	Sequence 189251,
14	44	51.2	26	9 US-09-888-721-2	Sequence 2, Appli
15	44	51.2	26	9 US-09-888-721-32	Sequence 32, Appl

Sequence 8, Appli
Sequence 7, Appli
Sequence 2, Appli
Sequence 5, Appli
Sequence 151165,
Sequence 70601, A
Sequence 4, Appli
Sequence 1, Appli
Sequence 2, Appli
Sequence 127, App
Sequence 112576,
Sequence 185113,
Sequence 5198, Ap
Sequence 43614, A
Sequence 108, App
Sequence 188046,
Sequence 174165,
Sequence 148131,
Sequence 175252,
Sequence 12462, A
Sequence 163463,
Sequence 118444, A
Sequence 117975,
Sequence 12370, A
Sequence 23, Appl
Sequence 143589,
Sequence 57856, A
Sequence 56818, A
Sequence 12063, A

US-10-240-430-8
US-10-240-430-7
US-10-262-209-2
US-10-430-5
US-10-437-963-151165
US-10-425-114-70601
US-10-239-567-4
US-10-262-209-1
US-10-240-430-2
US-09-771-161A-127
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US-10-156-761-12462
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US-09-846-589A-23
US-10-437-963-143589
US-10-425-114-57956
US-10-425-114-56618
US-10-156-761-12063

ALIGNMENTS

RESULT 1
US-10-437-963-163328
; Sequence 163328, Application US/10437963
; Publication No. US20040123343A1
; GENESAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 163328
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_62334C.1.pep
US-10-437-963-163328
Query Match 58.1%; Score 50; DB 16; Length 380;
Best Local Similarity 66.7%; Pred. No. 26;
Matches 10; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
QY 2 RRRAARRAKARRCK 16
Db 20 RRRAARRCKRRRC 34
RESULT 2
US-10-437-963-160528

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; Sequence 160528, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 160528
; LENGTH: 620
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(620)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_59799C.1.pep
US-10-437-963-160528

Query Match 57.0%; Score 49; DB 16; Length 620;
Best Local Similarity 55.6%; Pred. No. 56;
Matches 10; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
Db 175 ARRPCAVRRRAARRCRS 192

RESULT 3
US-10-437-963-184740
; Sequence 184740, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 184740
; LENGTH: 1269
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1269)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_81704C.1.pep
US-10-437-963-184740

Query Match 55.8%; Score 48; DB 16; Length 1269;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 10; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
Db 687 ARQAEAAAREEAPARACOA 704

RESULT 4
US-10-437-963-178731
; Sequence 178731, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 178731
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(105)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_76259C.1.pep
US-10-437-963-178731

Query Match 55.2%; Score 47.5; DB 16; Length 105;
Best Local Similarity 45.8%; Pred. No. 18;
Matches 11; Conservative 4; Mismatches 2; Indels 7; Gaps 1;

QY 2 RRRAK-----ARRAKAARRCKA 18
Db 13 RRARGGHHGAAGRRARRRRRCRA 36

RESULT 5
US-10-437-963-185672
; Sequence 185672, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 185672
; LENGTH: 88
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(88)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_82545C.1.pep
US-10-437-963-185672

Query Match 52.3%; Score 45; DB 16; Length 88;

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Best Local Similarity 56.2%; Pred. No. 34;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRCK 17
|||:|||||:
DB 47 RRSFAGRRAGGARRAR 62

RESULT 6
US-10-437-963-202539
; Sequence 202539, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437.963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 202539
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_9780C.1.pap
US-10-437-963-202539

Query Match 52.3%; Score 45; DB 16; Length 113;
Best Local Similarity 50.0%; Pred. No. 43;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
|||:|||||:
DB 12 ARRSFARRRRRCRA 29

RESULT 7
US-10-004-717-21
; Sequence 21, Application US/10004717
; Publication No. US20020192665A1
; GENERAL INFORMATION:
; APPLICANT: YANG, Qi
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPEUTIC USE OF AN
; TITLE OF INVENTION: ATONAL ASSOCIATED SEQUENCE FOR DEAFNESS,
; TITLE OF INVENTION: OSTEOARTHRITIS, AND ABNORMAL CELL PROLIFERATION
; FILE REFERENCE: P01893US4
; CURRENT APPLICATION NUMBER: US/10/004,717
; CURRENT FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: 09/585,645
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: 60/176,993
; PRIOR FILING DATE: 2000-01-19
; PRIOR APPLICATION NUMBER: 60/137,060
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 213
; TYPE: PRT
; ORGANISM: chicken
US-10-004-717-21

Query Match 52.3%; Score 45; DB 13; Length 213;
Best Local Similarity 55.6%; Pred. No. 76;

Matches 10; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
QY 1 ARRAKAAARRAKAARRCKA 18
|||:|||||:
DB 66 APTAETAQRIKESRELKA 83

RESULT 8
US-10-437-963-202417
; Sequence 202417, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437.963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 202417
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(240)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_9769C.1.pap
US-10-437-963-202417

Query Match 52.3%; Score 45; DB 16; Length 240;
Best Local Similarity 50.0%; Pred. No. 85;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
|||:|||||:
DB 155 ARRSFARRRRRCRA 172

RESULT 9
US-10-437-963-190754
; Sequence 190754, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437.963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 190754
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_87138C.1.pap
US-10-437-963-190754

Query Match 52.3%; Score 45; DB 16; Length 264;
Best Local Similarity 50.0%; Pred. No. 92;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
||| | : : : : :
Db 78 ARRSFAARRRRRCRA 95

RESULT 10

US-10-437-963-190954
; Sequence 190954, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 190954
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_87119C.1.pap
US-10-437-963-190954

Query Match 52.3%; Score 45; DB 16; Length 289;
Best Local Similarity 64.7%; Pred. No. 1e+02;
Matches 11; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCK 17
||| : : : : :
Db 109 ARRAEAGIASAARRLR 125

RESULT 11

US-10-437-963-115996
; Sequence 115996, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 115996
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(415)
; OTHER INFORMATION: unsure at all Xaa locations

; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_1953C.1.pap
US-10-437-963-115996

Query Match 52.3%; Score 45; DB 16; Length 415;
Best Local Similarity 50.0%; Pred. No. 1.4e+02;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
||| | : : : : :
Db 218 ARRSFAARRRRRCRA 235

RESULT 12

US-10-437-963-190753
; Sequence 190753, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 190753
; LENGTH: 670
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(670)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_87137C.1.pap
US-10-437-963-190753

Query Match 52.3%; Score 45; DB 16; Length 670;
Best Local Similarity 50.0%; Pred. No. 2.1e+02;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
||| | : : : : :
Db 285 ARRSFAARRRRRCRA 302

RESULT 13

US-10-437-963-189251
; Sequence 189251, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 189251

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; LENGTH: 1504
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_85779C.1.pep
US-10-437-963-189251

Query Match      52.3%; Score 45; DB 16; Length 1504;
Best Local Similarity 56.2%; Pred. No. 4.5e+02;
Matches 9; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 3 RAKAARRAKAARRCKA 18
Db 1323 RITQRRMRMSARCKA 1338

RESULT 14
US-09-888-721-2
Sequence 2, Application US/09888721
Patent No. US20020132990A1
GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-2

Query Match      51.2%; Score 44; DB 9; Length 26;
Best Local Similarity 50.0%; Pred. No. 16;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ARRAKAAARRAKAARRCKA 18
Db 1 AKKAKSPKAKAARPKKA 18

RESULT 15
US-09-888-721-32
Sequence 32, Application US/09888721
Patent No. US20020132990A1
GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32
; LENGTH: 26
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-32

Query Match      51.2%; Score 44; DB 9; Length 26;
Best Local Similarity 50.0%; Pred. No. 16;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ARRAKAAARRAKAARRCKA 18
Db 1 AKKAKSPKAKAARPKKA 18

Search completed: August 17, 2004, 17:19:19
Job time : 29.3812 secs
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 5.9703 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-38

Perfect score: 53

Sequence: 1 AKCKRAAKAKRA 12

Scoring table: BLOSUM62

Gapop: 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	38	64.4	60	1	US-08-346-849-16
2	38	64.4	60	2	US-08-253-284A-16
3	38	64.4	60	4	US-08-898-300-16
4	38	64.4	192	4	US-09-252-991A-23268
5	37	62.7	367	4	US-09-252-991A-29742
6	37	62.7	955	4	US-09-252-991A-18882
7	36	61.0	450	4	US-09-252-991A-18376
8	36	61.0	621	4	US-09-198-452A-389
9	36	61.0	641	4	US-09-252-991A-26994
10	35	59.3	181	4	US-09-252-991A-17818
11	35	59.3	200	4	US-09-252-991A-18739
12	35	59.3	390	4	US-09-252-991A-22732
13	34	57.6	143	4	US-09-252-991A-30965
14	34	57.6	163	4	US-09-543-681A-7133
15	34	57.6	361	4	US-09-543-681A-5390
16	34	57.6	521	4	US-09-252-991A-27321
17	34	57.6	536	4	US-09-449-632-2
18	34	57.6	1091	3	US-09-306-595C-7
19	34	57.6	1091	4	US-09-925-388-7
20	33.5	56.8	682	1	US-08-441-139-2
21	33	55.9	28	2	US-08-620-151-129
22	33	55.9	98	4	US-09-252-991A-26215
23	33	55.9	103	3	US-09-041-889-39
24	33	55.9	103	4	US-09-417-264-39
25	33	55.9	116	3	US-09-041-889-38
26	33	55.9	116	4	US-09-417-264-38
27	33	55.9	158	3	US-09-041-889-40

28	33	55.9	158	4	US-09-417-264-40	Sequence 40, Appl
29	33	55.9	171	4	US-09-252-991A-20639	Sequence 20639, A
30	33	55.9	186	4	US-09-252-991A-32250	Sequence 32250, A
31	33	55.9	222	3	US-09-041-889-3	Sequence 3, Appli
32	33	55.9	222	3	US-08-837-058-3	Sequence 3, Appli
33	33	55.9	222	4	US-09-417-264-3	Sequence 3, Appli
34	33	55.9	226	3	US-09-041-889-32	Sequence 32, Appl
35	33	55.9	226	4	US-09-417-264-32	Sequence 32, Appl
36	33	55.9	287	4	US-09-252-991A-28597	Sequence 28597, A
37	33	55.9	365	4	US-09-252-991A-31439	Sequence 31439, A
38	33	55.9	679	4	US-09-543-681A-4843	Sequence 4843, Ap
39	33	55.9	822	4	US-09-489-039A-8709	Sequence 8709, Ap
40	33	55.9	1043	2	US-08-724-354D-4	Sequence 4, Appli
41	33	55.9	1043	3	US-09-270-984A-4	Sequence 4, Appli
42	33	55.9	1118	2	US-08-724-354D-2	Sequence 2, Appli
43	33	55.9	1118	3	US-09-270-984A-2	Sequence 2, Appli
44	33	55.9	2396	1	US-08-157-005-2	Sequence 2, Appli
45	33	55.9	2396	3	US-08-747-863-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-346-849-16
; Sequence 16, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/346,849
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-346-849-16

Query Match 64.4%; Score 38; DB 1; Length 60;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKKA 12
||| |||||:
Db 18 AKRKAARAKKA 29

RESULT 2

US-08-293-284A-16
; Sequence 16, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284A
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-293-284A-16

Query Match 64.4%; Score 38; DB 2; Length 60;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKKA 12
||| |||||:
Db 18 AKRKAARAKKA 29

RESULT 3

US-08-898-300-16
; Sequence 16, Application US/08898300
; Patent No. 6548630
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY

; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/898,300
; FILING DATE: 22 JULY 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/346,849
; FILING DATE: 30 NOVEMBER 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008PB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781) 861-6240
; TELEFAX: (781) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-898-300-16

Query Match 64.4%; Score 38; DB 4; Length 60;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKKA 12
||| |||||:
Db 18 AKRKAARAKKA 29

RESULT 4

US-09-252-991A-23268
; Sequence 23268, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Mars J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 23268
; LENGTH: 192
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23268

Query Match 64.4%; Score 38; DB 4; Length 192;
Best Local Similarity 63.6%; Pred. No. 45;

Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKR 11
Db 114 APCKRASGRASR 124

RESULT 5
US-09-252-991A-29742
; Sequence 29742, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29742
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29742

Query Match 62.7%; Score 37; DB 4; Length 367;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKRA 12
Db 19 AGCVRAASARSA 30

RESULT 6
US-09-252-991A-18882
; Sequence 18882, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18882
; LENGTH: 955
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18882

Query Match 62.7%; Score 37; DB 4; Length 955;
Best Local Similarity 63.6%; Pred. No. 2.7e+02;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 2 KCKRAAKAKRA 12
Db 38 KCSRAAPTGRS 48

RESULT 7
US-09-252-991A-18376
; Sequence 18376, Application US/09252991A
; Patent No. 6551795

GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18376
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18376

Query Match 61.0%; Score 36; DB 4; Length 450;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AKCKRAAKA 9
Db 355 SRCRAAKA 363

RESULT 8
US-09-198-452A-389
; Sequence 389, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Grifais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 389
; LENGTH: 621
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-389

Query Match 61.0%; Score 36; DB 4; Length 621;
Best Local Similarity 70.0%; Pred. No. 2.6e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 KCKRAAKAKR 11
Db 162 KCKRLGKAMR 171

RESULT 9
US-09-252-991A-26994
; Sequence 26994, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26994
; LENGTH: 641

; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26994

Query Match 61.0%; Score 36; DB 4; Length 641;
Best Local Similarity 41.7%; Pred. No. 2.7e+02;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKRA 12
:::|::|::|
DB 119 SRCRRAGCRRA 130

RESULT 10

US-09-252-991A-17818
; Sequence 17818, Application US/03252991A
; Patent No. 6551795

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 17818

; LENGTH: 181

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-17818

Query Match 59.3%; Score 35; DB 4; Length 181;
Best Local Similarity 54.5%; Pred. No. 1.3e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKR 11
:|::|::|
DB 9 SSCARAAAR 19

RESULT 11

US-09-252-991A-18739
; Sequence 18739, Application US/09252991A
; Patent No. 6551795

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 18739

; LENGTH: 200

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-18739

Query Match 59.3%; Score 35; DB 4; Length 200;
Best Local Similarity 50.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKRA 12
:::|::|::|
DB 151 SRCRRRAAKRS 162

RESULT 12

US-09-252-991A-22732
; Sequence 22732, Application US/09252991A
; Patent No. 6551795

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 22732

; LENGTH: 390

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-22732

Query Match 59.3%; Score 35; DB 4; Length 390;
Best Local Similarity 60.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 KCKRAAKAKR 11
:|::|::|
DB 259 KCRRAARAGR 268

RESULT 13

US-09-252-991A-30965
; Sequence 30965, Application US/09252991A
; Patent No. 6551795

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 30965

; LENGTH: 143

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-30965

Query Match 57.6%; Score 34; DB 4; Length 143;
Best Local Similarity 58.3%; Pred. No. 1.5e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKRA 12
:|::|::|
DB 74 AACRRASGATRA 85

RESULT 14

US-09-543-681A-7133
; Sequence 7133, Application US/09543681A
; Patent No. 6605709

; GENERAL INFORMATION:
; APPLICANT: GARY BRETTON

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 2709.1002-001

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; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 7133
; LENGTH: 163
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-7133

Query Match      57.6%; Score 34; DB 4; Length 163;
Best Local Similarity 58.3%; Pred. No. 1.6e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKRA 12
Db 80 AKCLKAKKAEMA 91

RESULT 15
US-09-543-681A-5390
; Sequence 5390, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5390
; LENGTH: 361
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-5390

Query Match      57.6%; Score 34; DB 4; Length 361;
Best Local Similarity 66.7%; Pred. No. 3.3e+02;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKRA 12
Db 224 AKAKAAAEAKAA 235

Search completed: August 17, 2004, 16:14:38
Job time : 5.9703 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 18.9208 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-38

Perfect score: 59

Sequence: 1 AKCKRAAKAKRA 12

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep:*
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- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
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- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	DB ID	Description
1	39	66.1	556	14	US-10-156-761-14502
2	38	64.4	60	16	Sequence 14502, A
3	38	64.4	606	15	Sequence 16, Appl
4	38	64.4	734	16	Sequence 13278, A
5	38	64.4	1039	16	Sequence 122190, A
6	37	62.7	103	16	Sequence 148841, A
7	37	62.7	601	12	Sequence 131597, A
8	36	61.0	67	16	Sequence 55143, A
9	36	61.0	106	12	Sequence 188535, A
10	36	61.0	138	14	Sequence 94, Appl
11	36	61.0	241	9	Sequence 12462, A
12	36	61.0	241	12	Sequence 745, App
13	36	61.0	284	16	Sequence 745, App
14	36	61.0	304	16	Sequence 147, App
15	36	61.0	326	16	Sequence 111630, A
					Sequence 174627, A

16	36	61.0	372	12	US-10-282-122A-68109
17	36	61.0	437	15	US-10-264-049-2443
18	36	61.0	613	12	US-10-282-122A-54801
19	36	61.0	621	15	US-10-289-762-389
20	36	61.0	694	10	US-09-405-920-2
21	36	61.0	708	15	US-10-144-194A-112
22	36	61.0	708	15	US-10-648-593-158
23	36	61.0	750	15	US-10-144-194A-78
24	36	61.0	769	15	US-10-144-194A-76
25	36	61.0	791	15	US-10-144-194A-74
26	35	59.3	49	12	US-10-424-599-199249
27	35	59.3	116	16	US-10-437-963-108077
28	35	59.3	129	16	US-10-437-963-134206
29	35	59.3	153	16	US-10-437-963-165065
30	35	59.3	298	16	US-10-437-963-156788
31	35	59.3	344	15	US-10-369-493-1440
32	35	59.3	727	14	US-10-128-714-3205
33	35	59.3	764	12	US-10-282-122A-46624
34	35	59.3	856	14	US-10-128-714-8205
35	35	59.3	984	12	US-10-282-122A-50177
36	35	59.3	1733	16	US-10-437-963-193694
37	34	57.6	97	12	US-10-424-599-201366
38	34	57.6	107	16	US-10-437-963-121785
39	34	57.6	132	16	US-10-437-963-180641
40	34	57.6	138	16	US-10-437-963-121784
41	34	57.6	145	12	US-10-424-599-247158
42	34	57.6	171	16	US-10-437-963-121248
43	34	57.6	171	16	US-10-437-963-126403
44	34	57.6	191	16	US-10-437-963-126402
45	34	57.6	227	12	US-10-425-114-38060

ALIGNMENTS

RESULT 1

US-10-156-761-14502
; Sequence 14502, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 14502
; LENGTH: 556
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-14502

Query Match 66.1%; Score 39; DB 14; Length 556;
Best Local Similarity 66.7%; Pred. No. 2.6e+02;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKRA 12

Db 527 AOCERAAAAARA 538

RESULT 2

US-10-390-472-16

; Sequence 16, Application US/10390472
; Publication No. US20040087013A1
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; Zhang, Shuguang
; Rich, Alexander
; Dipersio, C. Michael
; Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.125
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/390,472
FILING DATE: 17-Mar-2003
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/293,284
FILING DATE: 22-AUG-1994
APPLICATION NUMBER: 07/573,326
FILING DATE: 28-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:

LENGTH: 60 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 16:

US-10-390-472-16

Query Match 64.4%; Score 38; DB 16; Length 60;
Best Local Similarity 75.0%; Pred. No. 47;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCRKAAKKA 12
DB 18 AKRKAARAKKA 29
||| |||||

RESULT 3

US-10-369-493-13278
; Sequence 13278, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28

; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 13278
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Aspergillus nidulans
US-10-369-493-13278

Query Match 64.4%; Score 38; DB 15; Length 606;
Best Local Similarity 90.0%; Pred. No. 4.1e+02;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AKCRKAAKAK 10
DB 71 AKDKRAAKAK 80
||| |||||

RESULT 4

US-10-437-963-122190
; Sequence 122190, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 122190
; LENGTH: 734
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_25141C.1.pcp
US-10-437-963-122190

Query Match 64.4%; Score 38; DB 16; Length 734;
Best Local Similarity 63.6%; Pred. No. 4.9e+02;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCRKAAKAKR 11
DB 105 AKCRPADARR 115
||| |||||

RESULT 5

US-10-437-963-148841
; Sequence 148841, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966

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; SEQ ID NO 148841
; LENGTH: 1039
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_49232C.1.pep
US-10-437-963-148841

Query Match
Best Local Similarity 64.4%; Score 38; DB 16; Length 1039;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 KCKGAARAKKA 12
Db 404 KCKGAARAKKA 414

RESULT 6
US-10-437-963-131597
; Sequence 131597, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 131597
; LENGTH: 103
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_33649C.1.pep
US-10-437-963-131597

Query Match
Best Local Similarity 62.7%; Score 37; DB 16; Length 103;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKKA 12
Db 75 AACGGAARAKKAS 86

RESULT 7
US-10-282-122A-55143
; Sequence 55143, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
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; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55143
; LENGTH: 601
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-10-282-122A-55143

Query Match
Best Local Similarity 62.7%; Score 37; DB 12; Length 601;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKR 11
Db 151 AKCKRLGRAMR 161

RESULT 8
US-10-437-963-188535
; Sequence 188535, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 188535
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_8512C.1.pep
US-10-437-963-188535

Query Match
Best Local Similarity 61.0%; Score 36; DB 16; Length 67;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AKCKRAAKA 9
Db 34 AKCKRAARA 42
```

```

RESULT 9
US-10-001-885-94
; Sequence 94, Application US/10001885
; Publication No. US20040058319A1
; GENERAL INFORMATION:
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Hervé
; APPLICANT: Cafférkey, Robert
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Ovary Specific Genes and Pro
; FILE REFERENCE: DEX-0279
; CURRENT APPLICATION NUMBER: US/10/001,885
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 60/252,061
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: 60/253,257
; PRIOR FILING DATE: 2000-11-27
; NUMBER OF SEQ ID NOS: 167
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 94
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-001-885-94

Query Match          61.0%; Score 36; DB 12; Length 106;
Best Local Similarity 70.0%; Pred. No. 1.7e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 KCKRAAKAKR 11
Db 90 KCKRKKKKR 99

RESULT 10
US-10-156-761-12462
; Sequence 12462, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12462
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12462

Query Match          61.0%; Score 36; DB 14; Length 138;
Best Local Similarity 72.7%; Pred. No. 2.2e+02;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKR 11
Db 16 AKAAARVAKAKR 26

RESULT 11
US-09-925-302-745
; Sequence 745, Application US/09925302
; Patent No. US20020044941A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 745
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (31)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (34)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (39)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (40)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-302-745

Query Match          61.0%; Score 36; DB 9; Length 241;
Best Local Similarity 54.5%; Pred. No. 3.6e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2 KCKRAAKAKRA 12
Db 208 KCKKAASSSKA 218

RESULT 12
US-09-925-302-745
; Sequence 745, Application US/09925302
; Publication No. US20030064072A9
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 745
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (31)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (34)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (39)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (40)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-302-745

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/ LOCATION: (39)
/ OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
/ NAME/KEY: SITE
/ LOCATION: (40)
/ OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-302-745

Query Match          61.0%; Score 36; DB 12; Length 241;
Best Local Similarity 54.5%; Pred. No. 3.6e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2 KCKRAAKAKRA 12
   |||:|:|:|:|
Db 208 KCKRAASSSKA 218

RESULT 13
US-10-408-765A-147
; Sequence 147, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fahy, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warlock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408.765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-147

Query Match          61.0%; Score 36; DB 16; Length 284;
Best Local Similarity 54.5%; Pred. No. 4.2e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2 KCKRAAKAKRA 12
   |||:|:|:|:|
Db 251 KCKRAASSSKA 261

RESULT 14
US-10-437-963-111630
; Sequence 111630, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437.963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 111630
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Oryza sativa
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/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT4530_15591C.1.pep
US-10-437-963-111630

Query Match          61.0%; Score 36; DB 16; Length 304;
Best Local Similarity 58.3%; Pred. No. 4.5e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKRA 12
   |||:|:|:|:|
Db 161 SKCARAKAEFKRA 172

RESULT 15
US-10-437-963-174627
; Sequence 174627, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437.963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 174627
; LENGTH: 326
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(326)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_7254C.1.pep
US-10-437-963-174627

Query Match          61.0%; Score 36; DB 16; Length 326;
Best Local Similarity 66.7%; Pred. No. 4.8e+02;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKRA 12
   |||:|:|:|:|
Db 74 AKATRAAKKKRA 85

Search completed: August 17, 2004, 17:19:20
Job time : 19.9208 secs
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 14.9257 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-41
Perfect score: 135
Sequence: 1 AKKARAARAKKARAARAKKARA 30

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents 2A:*
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3: /cgn2_6/prodata/2/iaa/6A_COMB.pep.*
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5: /cgn2_6/prodata/2/iaa/PCOTUS_COMB.pep.*
6: /cgn2_6/prodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	94	69.6	223	3	US-09-095-855-201
2	94	69.6	223	4	US-09-205-426-201
3	77	57.0	109	4	US-09-405-743A-7
4	73.5	54.4	469	4	US-09-489-039A-13565
5	70	51.9	29	1	US-08-152-488-12
6	70	51.9	29	1	US-08-303-025-14
7	70	51.9	29	1	US-08-677-304-12
8	70	51.9	29	2	US-08-436-703B-16
9	70	51.9	60	1	US-08-346-849-16
10	70	51.9	60	2	US-08-293-284A-16
11	70	51.9	60	4	US-08-898-300-16
12	68.5	50.7	1507	3	US-08-929-329-5
13	68	50.4	218	3	US-09-041-889-4
14	68	50.4	218	3	US-08-837-058-4
15	68	50.4	218	4	US-09-417-264-4
16	67.5	50.0	32	1	US-08-152-488-13
17	67.5	50.0	32	1	US-08-303-025-15
18	67.5	50.0	32	1	US-08-677-304-13
19	67.5	50.0	32	2	US-08-436-703B-2
20	67.5	50.0	33	1	US-08-303-025-16
21	67.5	50.0	33	2	US-08-436-703B-4
22	67	49.6	48	3	US-08-993-008A-5
23	67	49.6	56	3	US-08-993-008A-6
24	67	49.6	100	2	US-08-460-890A-63
25	67	49.6	100	2	US-08-460-890A-64
26	67	49.6	100	3	US-08-167-641C-63
27	67	49.6	100	3	US-08-167-641C-64

28	67	49.6	100	3	US-08-460-971A-63	Sequence 63, Appl
29	67	49.6	100	3	US-08-460-971A-64	Sequence 64, Appl
30	67	49.6	100	3	US-08-462-040-63	Sequence 63, Appl
31	67	49.6	100	3	US-08-462-040-64	Sequence 64, Appl
32	65	48.1	79	4	US-09-107-532A-7073	Sequence 7073, Ap
33	64	47.4	77	4	US-08-405-743A-5	Sequence 5, Appl
34	64	47.4	86	4	US-08-405-743A-6	Sequence 6, Appl
35	63.5	47.0	56	4	US-09-405-743A-3	Sequence 3, Appl
36	63	46.7	29	1	US-08-152-488-3	Sequence 3, Appl
37	63	46.7	29	1	US-08-303-025-3	Sequence 3, Appl
38	63	46.7	29	1	US-08-677-304-3	Sequence 8, Appl
39	63	46.7	29	2	US-08-436-703B-8	Sequence 29581, A
40	63	46.7	407	4	US-09-252-991A-29581	Sequence 4, Appl
41	62.5	46.3	66	4	US-09-405-743A-4	Sequence 13743, A
42	62.5	46.3	207	4	US-09-489-039A-13743	Sequence 23085, A
43	62	45.9	181	4	US-09-252-991A-23085	Sequence 10, Appl
44	61.5	45.6	29	1	US-08-152-488-10	Sequence 11, Appl
45	61.5	45.6	29	1	US-08-152-488-11	

ALIGNMENTS

RESULT 1
US-09-095-855-201
; Sequence 201, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TITILE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 201:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 223 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein


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SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-152-488-12

Query Match 51.9%; Score 70; DB 1; Length 29;
Best Local Similarity 70.4%; Pred. No. 0.014;
Matches 19; Conservative 4; Mismatches 2; Indels 2; Gaps 2;

QY 3 KAAAKKA-RAAKKA-RAAKKAAK 27
Db 2 KKAACKAKKA-RAAKKA-RAAKKAAK 28

RESULT 6
US-08-303-025-14
Sequence 14, Application US/08303025
Patent No. 5614494
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 150 West Jefferson, Suite 2500
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226-4415
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS v.6.22
SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7WH-060548-00231
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE: N/A
ORGANISM: N/A

SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-14

Query Match 51.9%; Score 70; DB 1; Length 29;
Best Local Similarity 70.4%; Pred. No. 0.014;
Matches 19; Conservative 4; Mismatches 2; Indels 2; Gaps 2;

QY 3 KAAAKKA-RAAKKA-RAAKKAAK 27
Db 2 KKAACKAKKA-RAAKKA-RAAKKAAK 28

RESULT 7
US-08-677-304-12
Sequence 12, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: No. 5721212 Relevant
TOPOLOGY: No. 5721212 Relevant
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-677-304-12

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Query Match 51.9%; Score 70; DB 1; Length 29;
 Best Local Similarity 70.4%; Pred. No. 0.014; 2; Indels
 Matches 19; Conservative 4; Mismatches 2; Gaps 2;

QY 3 KAAAKKA-RAAKKA-RAAKKAAK 27
 DB 2 KKAAKKA-RAAKKA-RAAKKAAK 28

RESULT 8

US-08-436-703B-16
 ; Sequence 16, Application US/08436703B
 ; Patent No. 5919761
 ; GENERAL INFORMATION:
 ; APPLICANT: Wakefield, Thomas W.
 ; APPLICANT: Andrews, Philip C.
 ; APPLICANT: Stanley, James C.
 ; TITLE OF INVENTION: NOVEL PEPTIDES FOR
 ; TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
 ; TITLE OF INVENTION: WEIGHT HEPARIN
 ; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
 ; NUMBER OF SEQUENCES: 18
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Benita J. Rohm, Esq.
 ; STREET: 6601 Woodward Avenue
 ; CITY: Detroit
 ; STATE: Michigan
 ; COUNTRY: United States of America
 ; ZIP: 48226

COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: MS-DOS
 ; SOFTWARE: Wordperfect 6;
 ; SOFTWARE: ASCII (DOS)Text
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/436,703B
 ; FILING DATE: 08-MAY-1995
 ; CLASSIFICATION: 514
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: N/A
 ; FILING DATE: N/A
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Rohm, Benita J.
 ; REGISTRATION NUMBER: 28,664
 ; REFERENCE/DOCKET NUMBER: 7WK-060548-00233

TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 313-965-1976
 ; TELEFAX: 313-965-1951
 ; INFORMATION FOR SEQ ID NO: 16:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 29 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: N/A
 ; TOPOLOGY: N/A
 ; MOLECULE TYPE: peptide
 ; ORIGINAL SOURCE:
 ; ORGANISM: N/A
 ; PUBLICATION INFORMATION:
 ; AUTHORS: N/A
 ; TITLE: N/A
 ; US-08-436-703B-16

Query Match 51.9%; Score 70; DB 2; Length 29;
 Best Local Similarity 70.4%; Pred. No. 0.014;
 Matches 19; Conservative 4; Mismatches 2; Indels 2; Gaps 2;

QY 3 KAAAKKA-RAAKKA-RAAKKAAK 27
 DB 2 KKAAKKA-RAAKKA-RAAKKAAK 28

RESULT 9
 US-08-346-849-16
 ; Sequence 16, Application US/08346849
 ; Patent No. 5670483
 ; GENERAL INFORMATION:
 ; APPLICANT: Zhang, Shuguang
 ; APPLICANT: Lockshin, Curtis
 ; APPLICANT: Rich, Alexander
 ; APPLICANT: Holmes, Todd
 ; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
 ; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
 ; TITLE OF INVENTION: THEREFOR
 ; NUMBER OF SEQUENCES: 64
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
 ; STREET: Two Militia Drive
 ; CITY: Lexington
 ; STATE: Massachusetts
 ; COUNTRY: U.S.A.
 ; ZIP: 02173-4799

COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/346,849
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/973,326
 ; FILING DATE: 28 DECEMBER 1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Brook, David E.
 ; REGISTRATION NUMBER: 22,592
 ; REFERENCE/DOCKET NUMBER: MIT-6008
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (617) 861-6240
 ; TELEFAX: (617) 861-9540
 ; INFORMATION FOR SEQ ID NO: 16:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 60 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-346-849-16

Query Match 51.9%; Score 70; DB 1; Length 60;
 Best Local Similarity 58.1%; Pred. No. 0.027;
 Matches 18; Conservative 4; Mismatches 7; Indels 2; Gaps 1;

QY 1 AKKAAAKKA-RAAKKAAK 29
 DB 11 AKKAAAKKA-RAAKKAAK 41

RESULT 10

US-08-293-284A-16
 ; Sequence 16, Application US/08293284A
 ; Patent No. 5955343
 ; GENERAL INFORMATION:
 ; APPLICANT: Holmes, Todd
 ; APPLICANT: Zhang, Shuguang
 ; APPLICANT: Rich, Alexander
 ; APPLICANT: DiPersio, C. Michael
 ; APPLICANT: Lockshin, Curtis
 ; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
 ; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
 ; TITLE OF INVENTION: THEREFOR
 ; NUMBER OF SEQUENCES: 64
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
 ; STREET: Two Militia Drive

Query Match 51.9%; Score 70; DB 2; Length 29;
 Best Local Similarity 70.4%; Pred. No. 0.014;
 Matches 19; Conservative 4; Mismatches 2; Indels 2; Gaps 2;

QY 3 KAAAKKA-RAAKKA-RAAKKAAK 27
 DB 2 KKAAKKA-RAAKKA-RAAKKAAK 28

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/ CITY: Lexington
/ STATE: Massachusetts
/ COUNTRY: U.S.A.
/ ZIP: 02173-4799
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/293,284A
/ FILING DATE: 22-AUG-1994
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/973,326
/ FILING DATE: 28-DEC-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Brook, David E.
/ REGISTRATION NUMBER: 22,592
/ REFERENCE/DOCKET NUMBER: MIT-6008A
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 861-6240
/ TELEFAX: (617) 861-9540
/ INFORMATION FOR SEQ ID NO: 16:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 60 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-293-284A-16

Query Match          51.9%; Score 70; DB 2; Length 60;
Best Local Similarity 58.1%; Pred. No. 0.027;
Matches 18; Conservative 4; Mismatches 7; Indels 2; Gaps 1;

QY      1 AKKAAAKKAAKAAKAAK--KARAANKAR 29
Db      11 AKKAAAKKAAKAAKAAKPKKAAKAK 41
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RESULT 11
US-08-898-300-16
/ Sequence 16, Application US/08898300
/ Patent No. 6548630
/ GENERAL INFORMATION:
/ APPLICANT: Zhang, Shuguang
/ APPLICANT: Lockshin, Curtis
/ APPLICANT: Rich, Alexander
/ APPLICANT: Holmes, Todd
/ TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
/ TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
/ TITLE OF INVENTION: THEREFOR
/ NUMBER OF SEQUENCES: 64
/ CORRESPONDENCE ADDRESS:
/ ADDRESSSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
/ STREET: Two Militia Drive
/ CITY: Lexington
/ STATE: Massachusetts
/ COUNTRY: U.S.A.
/ ZIP: 02173-4799
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/898,300
/ FILING DATE: 22 JULY 1997
/ CLASSIFICATION: 514
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/346,849
/ FILING DATE: 30 NOVEMBER 1994
/ PRIOR APPLICATION DATA:

Query Match          51.9%; Score 70; DB 2; Length 60;
Best Local Similarity 58.1%; Pred. No. 0.027;
Matches 18; Conservative 4; Mismatches 7; Indels 2; Gaps 1;

QY      1 AKKAAAKKAAKAAKAAK--KARAANKAR 29
Db      11 AKKAAAKKAAKAAKAAKPKKAAKAK 41
      ||| ||| ||| ||| ||| ||| ||| ||| |||
      ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 12
US-08-929-329-5
/ Sequence 5, Application US/08929329
/ Patent No. 6120770
/ GENERAL INFORMATION:
/ APPLICANT: Adams, John H
/ APPLICANT: Dalton, John P
/ APPLICANT: Kappe, Stefan
/ TITLE OF INVENTION: Plasmodium Proteins Useful for Preparing
/ TITLE OF INVENTION: Vaccine Compositions
/ NUMBER OF SEQUENCES: 23
/ CORRESPONDENCE ADDRESS:
/ ADDRESSSEE: Barnes & Thornburg
/ STREET: 11 S Meridian
/ CITY: Indianapolis
/ STATE: Indiana
/ COUNTRY: USA
/ ZIP: 46204
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/929,329
/ FILING DATE:
/ CLASSIFICATION: 424
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Breen, John P
/ REGISTRATION NUMBER: 38,833
/ REFERENCE/DOCKET NUMBER: 835910-28685
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (317) 231-7745
/ TELEFAX: (317) 231-7433
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1507 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: unknown
/ MOLECULE TYPE: protein
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ ORIGINAL SOURCE:
/ ORGANISM: Plasmodium yoelii
/ US-08-929-329-5
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/ APPLICATION NUMBER: 07/973,326
/ FILING DATE: 28 DECEMBER 1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Brook, David E.
/ REGISTRATION NUMBER: 22,592
/ REFERENCE/DOCKET NUMBER: MIT-6008PB
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (781) 861-6240
/ TELEFAX: (781) 861-9540
/ INFORMATION FOR SEQ ID NO: 16:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 60 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-898-300-16

Query Match          51.9%; Score 70; DB 4; Length 60;
Best Local Similarity 58.1%; Pred. No. 0.027;
Matches 18; Conservative 4; Mismatches 7; Indels 2; Gaps 1;

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Db      11 AKKAAAKKAAKAAKAAKPKKAAKAK 41
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RESULT 12
US-08-929-329-5
/ Sequence 5, Application US/08929329
/ Patent No. 6120770
/ GENERAL INFORMATION:
/ APPLICANT: Adams, John H
/ APPLICANT: Dalton, John P
/ APPLICANT: Kappe, Stefan
/ TITLE OF INVENTION: Plasmodium Proteins Useful for Preparing
/ TITLE OF INVENTION: Vaccine Compositions
/ NUMBER OF SEQUENCES: 23
/ CORRESPONDENCE ADDRESS:
/ ADDRESSSEE: Barnes & Thornburg
/ STREET: 11 S Meridian
/ CITY: Indianapolis
/ STATE: Indiana
/ COUNTRY: USA
/ ZIP: 46204
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/929,329
/ FILING DATE:
/ CLASSIFICATION: 424
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Breen, John P
/ REGISTRATION NUMBER: 38,833
/ REFERENCE/DOCKET NUMBER: 835910-28685
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (317) 231-7745
/ TELEFAX: (317) 231-7433
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1507 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: unknown
/ MOLECULE TYPE: protein
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ ORIGINAL SOURCE:
/ ORGANISM: Plasmodium yoelii
/ US-08-929-329-5
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 47.302 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-41

Perfect score: 135

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Searched: 1292805 segs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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3	77.5	57.4	428	12	US-10-282-122A-55748
4	77	57.0	109	9	US-09-816-989A-7
5	72	53.3	233	9	US-09-771-161A-127
6	71	52.6	323	12	US-10-282-122A-59321
7	70	51.9	60	16	US-10-390-472-16
8	70	51.9	217	14	US-10-156-761-10221
9	70	51.9	372	12	US-10-282-122A-68109
10	69.5	51.5	272	14	US-10-156-761-12370
11	68	50.4	55	16	US-10-240-430-8
12	68	50.4	66	16	US-10-240-430-7
13	68	50.4	130	14	US-10-262-209-2
14	68	50.4	130	16	US-10-240-430-5
15	68	50.4	218	14	US-10-229-567-4

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Sequence 2, Appli	17	68	50.4	234	16	US-10-240-430-2	Sequence 2, Appli
Sequence 186290,	18	68	50.4	293	16	US-10-437-963-186290	Sequence 186290,
Sequence 56061, A	19	67	49.6	298	12	US-10-425-114-56061	Sequence 56061, A
Sequence 56483, A	20	66.5	49.3	421	12	US-10-282-122A-56483	Sequence 56483, A
Sequence 10342, A	21	66.5	49.3	838	14	US-10-156-761-10342	Sequence 10342, A
Sequence 125161,	22	66	48.9	373	16	US-10-437-963-125161	Sequence 125161,
Sequence 17058, A	23	64.5	47.8	539	15	US-10-389-493-17058	Sequence 17058, A
Sequence 5, Appli	24	64	47.4	77	9	US-09-816-989A-5	Sequence 5, Appli
Sequence 6, Appli	25	64	47.4	86	9	US-09-816-989A-6	Sequence 6, Appli
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Sequence 32, Appli	27	63	46.7	26	9	US-09-888-721-2	Sequence 32, Appli
Sequence 182491,	28	63	46.7	26	9	US-09-888-721-32	Sequence 182491,
Sequence 69562, A	29	63	46.7	301	16	US-10-437-963-182491	Sequence 69562, A
Sequence 6237, A	30	63	46.7	336	12	US-10-282-122A-69562	Sequence 6237, A
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Sequence 29, Appl	32	63	46.7	347	14	US-10-127-032-120	Sequence 29, Appl
Sequence 30, Appl	33	63	46.7	431	16	US-10-383-930-29	Sequence 30, Appl
Sequence 33, Appl	34	63	46.7	431	16	US-10-383-930-30	Sequence 33, Appl
Sequence 31, Appl	35	63	46.7	431	16	US-10-383-930-33	Sequence 31, Appl
Sequence 32, Appl	36	63	46.7	432	16	US-10-383-930-31	Sequence 32, Appl
Sequence 4, Appli	37	63	46.7	432	16	US-10-383-930-32	Sequence 4, Appli
Sequence 60257, A	38	62.5	46.3	66	9	US-09-816-989A-4	Sequence 60257, A
Sequence 144844,	39	62.5	46.3	139	12	US-10-282-122A-60257	Sequence 144844,
Sequence 11306, A	40	62	45.9	373	12	US-10-424-599-144844	Sequence 11306, A
Sequence 18, Appl	41	62	45.9	788	14	US-10-156-761-11306	Sequence 18, Appl
Sequence 75772, A	42	62	45.9	3067	10	US-09-949-029-18	Sequence 75772, A
Sequence 9889, Ap	43	61.5	45.6	376	12	US-10-282-122A-75772	Sequence 9889, Ap
Sequence 75047, A	44	61.5	45.6	376	14	US-10-156-761-9889	Sequence 75047, A
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ALIGNMENTS

RESULT 1

US-10-051-643-201
; Sequence 201, Application US/10051643
; Publication No. US20020197265A1
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; TITLE OF INVENTION: Methods and Compounds for the Treatment
; TITLE OF INVENTION: of Immunologically-Mediated Diseases of the Respiratory
; TITLE OF INVENTION: System using Mycobacterium Vaccae
; FILE REFERENCE: 11000.1008c2
; CURRENT APPLICATION NUMBER: US/10/051,643
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US09/156,181
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: US 08/996,624
; PRIOR FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 201
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-051-643-201

Query Match 69.6%; Score 94; DB 13; Length 223;
Best Local Similarity 76.7%; Pred. No. 0.00027;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 1 AKKAAAKKARAARAKKARAARAKKARA 30
DB 147 AKKATAAKKAAAPAKKATAAKKAAAPAKKAPA 176

RESULT 2

US-10-205-979-52
; Sequence 52, Application US/10205979
; Publication No. US20030147861A1

```

; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; APPLICANT: Abernethy, Nevin
; TITLE OF INVENTION: Compounds and Methods for the Modulation
; FILE REFERENCE: 11000.1063U
; CURRENT APPLICATION NUMBER: US/10/205,979
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/308,446
; PRIOR FILING DATE: 2001-07-26
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-205-979-52

Query Match          69.6%; Score 94; DB 14; Length 223;
Best Local Similarity 78.7%; Pred. No. 0.00027;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAAKAAKAAKAAKAAKAA 30
Db 147 AKKATAAKQAAPAKKATAAKKAAKAAKAA 176

RESULT 3
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748

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```

; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match          57.4%; Score 77.5; DB 12; Length 428;
Best Local Similarity 70.0%; Pred. No. 0.051;
Matches 21; Conservative 3; Mismatches 5; Indels 1; Gaps 1;

QY 1 AKKAAKAAKAAKAAKAAKAAKAAKAAKAA 30
Db 231 AKKAAAEEKA-AEKAAAEEKAADKAAA 259

RESULT 4
US-09-816-989A-7
; Sequence 7, Application US/09816989A
; Patent No. US20020115103A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKI
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-7

Query Match          57.0%; Score 77; DB 9; Length 109;
Best Local Similarity 62.5%; Pred. No. 0.016;
Matches 20; Conservative 4; Mismatches 6; Indels 2; Gaps 1;

QY 1 AKKAAA--KKAAKAAKAAKAAKAAKAAKAA 30
Db 13 AKKAAKAAKAAKAAKAAKAAKAAKAAKAA 44

RESULT 5
US-09-771-161A-127
; Sequence 127, Application US/09771161A
; Patent No. US20020110811A1
; GENERAL INFORMATION:
; APPLICANT: LEVINE, et al.
; TITLE OF INVENTION: VARIANTS OF PROTEIN KINASES
; FILE REFERENCE: 802620-2005.1
; CURRENT APPLICATION NUMBER: US/09/771,161A
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 09/724,676
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 136776
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 135619
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 273
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 127
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-771-161A-127

```

Query Match 53.3%; Score 72; DB 9; Length 243;
Best Local Similarity 59.3%; Pred. No. 0.14;
Matches 16; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

Qy 2 KKAAAKKAAAKKAAAKKAAAKKAA 28
Db 9 KKAAAEAAAEAAAEAAAEATKAAEA 35

RESULT 6

US-10-282-122A-59321
; Sequence 59321, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,948
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 59321
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae

US-10-282-122A-59321
Query Match 52.6%; Score 71; DB 12; Length 323;
Best Local Similarity 45.7%; Pred. No. 0.24;
Matches 21; Conservative 3; Mismatches 4; Indels 18; Gaps 1;
Qy 1 AKKAAKAAKAAK-----KAAKAAKAAKAA 28
Db 149 AKKAAAEKAAKAAKAAAEKAAADKAAKAAKAAKAAKAAKAAKAA 194

RESULT 7

US-10-390-472-16
; Sequence 16, Application US/10390472
; Publication No. US20040087013A1
; GENERAL INFORMATION:

APPLICANT: Holmes, Todd
; Zhang, Shuguang
; Rich, Alexander
; DiPersio, C. Michael
; Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,472
; FILING DATE: 17-Mar-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284
; FILING DATE: 22-AUG-1994
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-390-472-16

Query Match 51.9%; Score 70; DB 16; Length 60;
Best Local Similarity 58.1%; Pred. No. 0.062;
Matches 18; Conservative 4; Mismatches 7; Indels 2; Gaps 1;
Qy 1 AKKAAKAAKAAKAAKAAK--KAAKAAK 29
Db 11 AKKAAAKKAAKAAKAAKAAKAAKAAK 41

RESULT 8

US-10-156-761-10221
; Sequence 10221, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, NASHAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30

DB	118	AKKAAAKKAAAKKAAAKKAAAKKAA 145
Db	118	AKKAAAKKAAAKKAAAKKAAAKKAA 145
RESULT 10		
US-10-156-761-12370		
Sequence 12370, Application US/10156761		
Publication No. US20030119018A1		
GENERAL INFORMATION:		
APPLICANT: OMURA, SATOSHI		
APPLICANT: IKEDA, HARUO		
APPLICANT: ISHIKAWA, JUN		
APPLICANT: HORIKAWA, HIROSHI		
APPLICANT: SHIBA, TADAYOSHI		
APPLICANT: SAKAKI, YOSHIYUKI		
APPLICANT: HATTORI, MASAHIRA		
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES		
FILE REFERENCE: 249-262		
CURRENT APPLICATION NUMBER: US/10/156.761		
CURRENT FILING DATE: 2002-05-29		
PRIOR APPLICATION NUMBER: JP 2001-204089		
PRIOR FILING DATE: 2001-05-30		
PRIOR APPLICATION NUMBER: JP 2001-272697		
PRIOR FILING DATE: 2001-08-02		
NUMBER OF SEQ ID NOS: 15109		
SEQ ID NO 12370		
LENGTH: 272		
TYPE: PRT		
ORGANISM: Streptomyces avermitilis		
US-10-156-761-12370		
Query Match	51.5%;	Score 69.5; DB 14; Length 272;
Best Local Similarity	51.4%;	Pred. No. 0.31;
Matches	18; Conservative	5; Mismatches 7; Indels 5; Gaps 1;
QY	1	AKKAAAKKAR-----AKKAAAKKAAAKKAA 30
Db	88	AAAKAAKQAKSDIADAKKGAETKKAARAAA 122
RESULT 11		
US-10-240-430-8		
Sequence 8, Application US/10240430		
Publication No. US20040110528A1		
GENERAL INFORMATION:		
APPLICANT: Czisanti, Andrea		
APPLICANT: Essegir, Selma		
TITLE OF INVENTION: Peptide Conjugates for Drug Delivery		
FILE REFERENCE: GJE-6402		
CURRENT APPLICATION NUMBER: US/10/240.430		
CURRENT FILING DATE: 2003-04-15		
PRIOR APPLICATION NUMBER: PCT/GH01/01697		
PRIOR FILING DATE: 2001-04-12		
PRIOR APPLICATION NUMBER: UK 0102667.3		
PRIOR FILING DATE: 2001-02-02		
PRIOR APPLICATION NUMBER: UK 0009080.3		
PRIOR FILING DATE: 2000-04-12		
NUMBER OF SEQ ID NOS: 14		
SOFTWARE: Patent in version 3.1		
SEQ ID NO 8		
LENGTH: 55		
TYPE: PRT		
ORGANISM: Homo sapiens		
US-10-240-430-8		
Query Match	50.4%;	Score 68; DB 16; Length 55;
Best Local Similarity	51.7%;	Pred. No. 0.1;
Matches	15; Conservative	5; Mismatches 9; Indels 0; Gaps 0;
QY	2	KKAAAKKAAAKKAAAKKAAAKKAA 30
Db	1	KKAKPAAAGAKKAAKPKKAAKPKKA 29

```
RESULT 12
US-10-240-430-7
; Sequence 7, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-7

Query Match          50.4%; Score 68; DB 16; Length 66;
Best Local Similarity 51.7%; Pred. No. 0.23;
Matches 15; Conservative 5; Mismatches 9; Indels 0; Gaps 0;

QY 2 KKAARAARAAAKKARAARAAKARA 30
Db 1 KKAAPAAAGAKKAKSPKKAARPKKA 29

RESULT 13
US-10-262-209-2
; Sequence 2, Application US/10262209
; Publication No. US2003012539A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegir, Selma
; TITLE OF INVENTION: Compositions for Drug Delivery
; FILE REFERENCE: GJE-6703
; CURRENT APPLICATION NUMBER: US/10/262,209
; PRIOR FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: PCT/GB01/01699
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-262-209-2

Query Match          50.4%; Score 68; DB 14; Length 130;
Best Local Similarity 51.7%; Pred. No. 0.23;
Matches 15; Conservative 5; Mismatches 9; Indels 0; Gaps 0;

QY 2 KKAARAARAAAKKARAARAAKARA 30
Db 65 KKAAPAAAGAKKAKSPKKAARPKKA 93

RESULT 14
US-10-240-430-5
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; Sequence 5, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-5

Query Match          50.4%; Score 68; DB 16; Length 130;
Best Local Similarity 51.7%; Pred. No. 0.23;
Matches 15; Conservative 5; Mismatches 9; Indels 0; Gaps 0;

QY 2 KKAARAARAAAKKARAARAAKARA 30
Db 65 KKAAPAAAGAKKAKSPKKAARPKKA 93

RESULT 15
US-10-229-567-4
; Sequence 4, Application US/10229567
; Publication No. US20030092080A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; Uterine Cervicitis, and Clinical Subtypes Thereof, Using
; Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/229,567
; FILING DATE: 27-Aug-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/417,264
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 09/041,889
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
```


; INFORMATION FOR SEQ ID NO: 27:

POSTAL

```

STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173-4799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/898,300
FILING DATE: 22 JULY 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/346,849
FILING DATE: 30 NOVEMBER 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973,326
FILING DATE: 28 DECEMBER 1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008FB
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781) 861-6240
TELEFAX: (781) 861-9540
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-898-300-16

Query Match 52.5%; Score 94.5; DB 4; Length 60;
Best local Similarity 60.0%; Pred. No. 0.00017;
Matches 24; Conservative 4; Mismatches 9; Indels 3; Gaps 1

QY 1 AKKAAKAAKKAARKYAAKAAKAAKKAARKYAAKAAKAAKAA 40
DB 11 AKKAAAKRAAAKAA---KKAAPKPKAAKAAKAPKAKS 47

RESULT 7
US-08-995-172-14
; Sequence 14, Application US/08995172B
; Patent No. 6218112
; GENERAL INFORMATION:
; APPLICANT: Thatcher, David R
; APPLICANT: Wilks, Paula E
; TITLE OF INVENTION: Optimization of Gene Delivery and Gene Delivery Systems
; FILE REFERENCE: CAC0026
; CURRENT APPLICATION NUMBER: US/08/995,172B
; CURRENT FILING DATE: 1997-12-22
; EARLIER APPLICATION NUMBER: 60/033,908
; EARLIER FILING DATE: 1996-12-23
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (49)
; OTHER INFORMATION: Xaa is Cys with Acn sidechain
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Peptide
US-08-995-172-14

Query Match 52.2%; Score 94; DB 3; Length 49;
Best local Similarity 56.4%; Pred. No. 0.00016;
Matches 22; Conservative 5; Mismatches 12; Indels 0; Gaps 0

```


RESULT 11
US-09-252-991A-22853
; Sequence 22853, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22853
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22853
Query Match 49.2%; Score 88.5; DB 4; Length 399;
Best Local Similarity 59.1%; Pred. No. 0.0044;
Matches 26; Conservative 0; Mismatches 13; Indels 5; Gaps 1;
QY 1 ARKAAKAAKAAKAAK-----AAKKAARKAAKAAKAAKAAK 39
DB 306 AAKPAKPAKPAKPAKPAKAAKAAKAAKAAKAAKAAKPAKPAKPAK 349
RESULT 12
US-09-489-039A-13565
; Sequence 13565, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US/09/489,039A
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 13565
; LENGTH: 469
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13565
Query Match 49.2%; Score 88.5; DB 4; Length 469;
Best Local Similarity 54.9%; Pred. No. 0.0051;
Matches 28; Conservative 2; Mismatches 10; Indels 11; Gaps 2;
QY 1 ARKAAKAAKAAKAAK-----KAARKKAA-----KAARKKAAKAAKAAKAA 40
DB 280 AEKAAEKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAK 330
RESULT 13
US-08-839-624-25
; Sequence 25, Application US/08839624
; Patent No. 6225045
; GENERAL INFORMATION:
; APPLICANT: Karn et al.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATTING
; FILE REFERENCE: 11-SEP-1998
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: Banner & Witcoff, Inc.
; FILING DATE: 11-SEP-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION NUMBER: 08/839,624
; FILING DATE: <Unknown>

STREET: One Financial Center
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/839,624
FILING DATE: April 15, 1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB96/78191
FILING DATE: 15-APR-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/017,268
FILING DATE: 13-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Kathleen M. Williams
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3255/5390
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-345-9100
TELEFAX: 617-345-9111
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-839-624-25
Query Match 48.3%; Score 87; DB 3; Length 37;
Best Local Similarity 55.6%; Pred. No. 0.00073;
Matches 20; Conservative 5; Mismatches 11; Indels 0; Gaps 0;
QY 3 KKAAGAARAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAA 38
DB 1 KKSPPKAKKPAKPKKAAKPKKAAKPKKAAKPKKAAKPKKAAK 36
RESULT 14
US-09-150-812-25
; Sequence 25, Application US/09150812
; Patent No. 6395891
; GENERAL INFORMATION:
; APPLICANT: Karn et al.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATTING
; HIV INFECTION
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: Banner & Witcoff, Inc.
; STREET: One Financial Center
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/150,812
FILING DATE: 11-SEP-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/839,624
FILING DATE: <Unknown>

1	112.5	62.5	347	12	US-10-282-122A-65237	Sequence 6237, A
2	112.5	62.5	347	14	US-10-427-038-120	Sequence 120, App
3	112	62.5	347	12	US-10-282-122A-68109	Sequence 68109, A
4	106	58.9	336	12	US-10-282-122A-69662	Sequence 69662, A
5	99	55.0	428	12	US-10-282-122A-55748	Sequence 55748, A
6	97.5	54.2	827	16	US-10-437-963-152005	Sequence 152005, A
7	97	53.9	214	12	US-10-282-122A-69547	Sequence 69547, A
8	97	53.9	214	12	US-10-282-122A-64817	Sequence 64817, A
9	97	53.9	214	14	US-10-229-567-27	Sequence 27, Appl
10	96	53.3	369	12	US-09-820-843A-7551	Sequence 95, Appl
11	96	53.3	369	12	US-10-282-122A-76514	Sequence 76514, A
12	94.5	52.5	60	16	US-10-390-472-16	Sequence 16, Appl
13	94	52.2	309	10	US-09-820-843A-24	Sequence 24, Appl
14	94	52.2	388	12	US-10-282-122A-78190	Sequence 78190, A
15	94	52.2	875	12	US-10-282-122A-59803	Sequence 59803, A


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; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match      55.0%; Score 99; DB 12; Length 428;
Best Local Similarity 62.5%; Pred.No. 0.0022;
Matches 25; Conservative 2; Mismatches 13; Indels 0; Gaps 0;

QY    1 ARKKAARKAAKAAAKKAAKAAKAAKAAKAAKAAKAAKAAKAAKAA 40
DB    198 AAKKAADAQQKAEAAKAAQAQAEKKAQAAEAFAAKGAAAA 237

RESULT 6
US-10-437-963-152005
; Sequence 152005, Application US/10437963
; Publication NO. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 152005
; LENGTH: 827
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_52099C.1.pep
US-10-437-963-152005

Query Match      54.2%; Score 97.5; DB 16; Length 827;
Best Local Similarity 47.1%; Pred.No. 0.006; 5; Indels 11; Gaps 1;
Matches 24; Conservative 11; Mismatches 5; Indels 11; Gaps 1;

QY    1 ARKKAARKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAA 40
DB    378 AQRAERAAVQKAAREASERAAAARERAAKAAKAAAKERVAEEARERAAKA 428

RESULT 7
US-10-282-122A-62547
; Sequence 62547, Application US/10282122A
; Publication NO. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA_034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21

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; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 79614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64817
; LENGTH: 214
; TYPE: PRF
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-64817

Query Match          53.9%; Score 97; DB 12; Length 214;
Best Local Similarity 67.5%; Pred. No. 0.0019;
Matches 27; Conservative 1; Mismatches 10; Indels 2; Gaps 2;

QY      3 KKAARAKKAAKA-ARKKAARAKKAA-KAARAKKAA 40
        |||||:|||||:|||||:|||||:|||||:|||||
Db     121 KKATKAARKAATKAPAKKAATKAPAKKAATKAPAKKAVKA 160

RESULT 9
US-10-229-567-27
; Sequence 27, Application US/10229567
; Publication No. US20030092080A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; Cohavy, Ofer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
                    Ulcerative Colitis, and Clinical Subtypes
                    Microbial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/229,567
FILING DATE: 27-Aug-2002
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE: <Unknown>
APPLICATION NUMBER: US 09/041,889
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 27:
US-10-229-567-27

Query Match          53.9%; Score 97; DB 14; Length 214;
Best Local Similarity 67.5%; Pred. No. 0.0019;
Matches 27; Conservative 1; Mismatches 10; Indels 2; Gaps 2;

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RESULT 11
US-10-282-122A-76514
; Sequence 76514, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Orlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITPA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625

NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173-4799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/390,472
FILING DATE: 17-Mar-2003
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/293,284
FILING DATE: 22-AUG-1994
APPLICATION NUMBER: 07/973,326
FILING DATE: 28-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein


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; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50803
; LENGTH: 875
; TYPE: PRT
; ORGANISM: Bordetella pertussis
US-10-282-122A-50803

Query Match      52.2%   Score 94;   DB 12;   Length 875;
Best Local Similarity 63.4%;   Pred. No. 0.015;
Matches 26;   Conservative 1;   Mismatches 12;   Indels 2;   Gaps 1;

Qy      1 ARKAAKAAKKAARKKAAKKAARKKAA--KAARKKAAK 39
      |:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|
Db      827 AKKAAGKTATKTAAPAKPAKTAAKKAVKKAAPKKAATKTAAK 867

Search completed: August 17, 2004, 17:19:21
Job time : 64.0693 secs
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; Sequence 13, Application US/08677304

GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13

;	TITLE OF INVENTION:	LOW MOLECULAR WEIGHT HE
;		
;	TITLE OF INVENTION:	ANTICOAGULATION REVERSA
;	NUMBER OF SEQUENCES:	13

TITLE OF INVENTION: ANTICOAGULATING
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.

STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey

COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

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;
; COMPUTER: IBM PC compatible
;
; OPERATING SYSTEM: MS-DOS
;
; SOFTWARE: Wordperfect 6; ASCII (DOS)Text
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; CURRENT APPLICATION DATA:
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APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530

; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/152,488
 ; FILING DATE: 12-NOV-1993
 ;

APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:

NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG

TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543

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; INFORMATION FOR SEQ ID NO: 13:
;
; SEQUENCE CHARACTERISTICS:
;     LENGTH: 32 amino acids
;

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TYPE: amino acid	STRANDEDNESS: No. 5721212 Relevant
TOPOLOGY: No. 5721212 Relevant	

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; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
;

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PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A

DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993

US-08-677-304-13

Query Match	59.3%	Score 64	DB 1
	59.3% <td>Score 64<td>DB 1</td></td>	Score 64 <td>DB 1</td>	DB 1

Best Local Similarity 65.4%; Pred. No. 0.055
Matches 17; Conservative 2; Mismatches

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QY      1 APRKAAAR--KKAKAARKKA 24
```

RESULT 7

US-08-436-703B-2
; Sequence 2, Application US/08436703B
; Patent No. 5919761

GENERAL INFORMATION:

APPLICANT: Stanley, James C.

1. TITLE OF INVENTION: NOVEL PEPTIDES FOR

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA: N/A
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-4

Query Match 59.3%; Score 64; DB 2; Length 33;
Best Local Similarity 65.4%; Pred. No. 0.055;
Matches 17; Conservative 5; Mismatches 5; Indels 2; Gaps 1;

QY 1 ARKKAAR--KKAARAKKA 24
DB 6 AAKKAARAKKAARAKKA 31

RESULT 10
US-08-346-849-16
; Sequence 16, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-293-284A-16

Query Match 58.8%; Score 63.5; DB 2; Length 60;
Best Local Similarity 60.7%; Pred. No. 0.11;
Matches 17; Conservative 2; Mismatches 4; Indels 5; Gaps 1;

QY 1 ARKKAARAKKAARAKKA 23
DB 11 AKKKAARAKKAARAKKA 38

RESULT 11
US-08-293-284A-16
; Sequence 16, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-293-284A-16

Query Match 58.8%; Score 63.5; DB 2; Length 60;
Best Local Similarity 60.7%; Pred. No. 0.11;
Matches 17; Conservative 2; Mismatches 4; Indels 5; Gaps 1;

QY 1 ARKKAARAKKAARAKKA 23

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-346-849-16

Query Match 58.8%; Score 63.5; DB 1; Length 60;
Best Local Similarity 60.7%; Pred. No. 0.11;
Matches 17; Conservative 2; Mismatches 4; Indels 5; Gaps 1;

QY 1 ARKKAARAKKAARAKKA 23
DB 11 AKKKAARAKKAARAKKA 38

RESULT 11
US-08-293-284A-16
; Sequence 16, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-293-284A-16

Query Match 58.8%; Score 63.5; DB 2; Length 60;
Best Local Similarity 60.7%; Pred. No. 0.11;
Matches 17; Conservative 2; Mismatches 4; Indels 5; Gaps 1;

QY 1 ARKKAARAKKAARAKKA 23

Db 11 AKKAAAKKAAKAAKAAKAAKAAKAAK 38

RESULT 12

US-08-898-300-16
 ; Sequence 16, Application US/08898300
 ; Patent No. 6548630
 ; GENERAL INFORMATION:
 ; APPLICANT: Zhang, Shuguang
 ; APPLICANT: Lockshin, Curtis
 ; APPLICANT: Rich, Alexander
 ; APPLICANT: Holmes, Todd
 ; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
 ; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
 ; TITLE OF INVENTION: THEREFOR
 ; NUMBER OF SEQUENCES: 64
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
 ; STREET: Two Mellicia Drive
 ; CITY: Lexington
 ; STATE: Massachusetts
 ; COUNTRY: U.S.A.
 ; ZIP: 02173-4799
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/898,300
 ; FILING DATE: 22 JULY 1997
 ; CLASSIFICATION: 514
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/346,849
 ; FILING DATE: 30 NOVEMBER 1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/973,326
 ; FILING DATE: 28 DECEMBER 1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Brook, David E.
 ; REGISTRATION NUMBER: 22,592
 ; REFERENCE/DOCKET NUMBER: MIT-6008FB
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (781) 861-6240
 ; TELEFAX: (781) 861-9540
 ; INFORMATION FOR SEQ ID NO: 16:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 60 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-898-300-16

Query Match 58.8%; Score 63.5; DB 4; Length 60;
 Best Local Similarity 60.7%; Pred. No. 0.11;
 Matches 17; Conservative 2; Mismatches 4; Indels 5; Gaps 1;

QY 1 ARKAAKAAKAAKAAKAAKAAKAAKAAK 23

Db 11 AKKAAAKKAAKAAKAAKAAKAAKAAK 38

RESULT 13

US-08-152-488-12
 ; Sequence 12, Application US/08152488
 ; Patent No. 5534619
 ; GENERAL INFORMATION:
 ; APPLICANT: Wakefield, Thomas W.
 ; APPLICANT: Andrews, Philip C.
 ; APPLICANT: Stanley, James C.
 ; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
 ; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN

; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
 ; NUMBER OF SEQUENCES: 13
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Benita J. Rohm, Esq.
 ; STREET: 512 Springfield Avenue
 ; CITY: Cranford
 ; STATE: New Jersey
 ; COUNTRY: United States of America
 ; ZIP: 07016-1811
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: MS-DOS
 ; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/152,488
 ; FILING DATE: 12-NOV-1993
 ; CLASSIFICATION: 514
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US92/08069
 ; FILING DATE: 14-AUG-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Rohm, Benita J.
 ; REGISTRATION NUMBER: 28,664
 ; REFERENCE/DOCKET NUMBER: RM-7WG
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 908-276-3344
 ; TELEFAX: 908-276-5543
 ; INFORMATION FOR SEQ ID NO: 12:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 29 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: N/A
 ; TOPOLOGY: N/A
 ; MOLECULE TYPE: peptide
 ; ORIGINAL SOURCE:
 ; ORGANISM: N/A
 ; PUBLICATION INFORMATION:
 ; AUTHORS: N/A
 ; TITLE: N/A
 ; PUBLICATION INFORMATION:
 ; DOCUMENT NUMBER: PCT/US92/08069
 ; FILING DATE: 14-AUG-1993
 ; US-08-152-488-12

Query Match 56.9%; Score 61.5; DB 1; Length 29;
 Best Local Similarity 69.6%; Pred. No. 0.098;
 Matches 16; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

QY 2 RKKAARKKAAKAAKAAKAAKAAKAAK 24

Db 2 KKAARKKAAKAAKAAKAAKAAKAAK 23

RESULT 14

US-08-303-025-14
 ; Sequence 14, Application US/08303025
 ; Patent No. 5614494
 ; GENERAL INFORMATION:
 ; APPLICANT: Wakefield, Thomas W.
 ; APPLICANT: Andrews, Philip C.
 ; APPLICANT: Stanley, James C.
 ; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
 ; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
 ; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
 ; NUMBER OF SEQUENCES: 16
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Benita J. Rohm, Esq.
 ; STREET: 150 West Jefferson, Suite 2500
 ; CITY: Detroit
 ; STATE: Michigan
 ; COUNTRY: United States of America
 ; ZIP: 48226-4415

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS V.6.22
SOFTWARE: Wordperfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA: PCT/US92/06629
APPLICATION NUMBER: 14-AUG-1992
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7MH-060548-00231
TELEPHONE: 313-496-8454
TELEFAX: 313-496-7622
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-14

Query Match 56.9%; Score 61.5; DB 1; Length 29;
Best Local Similarity 69.6%; Pred. No. 0.098;
Matches 16; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

QY 2 RKKAARKKAARKKAARKKA 24
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Db 2 KKAARKKA-KKAARKKAARKKA 23

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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA: PCT/US92/06629
APPLICATION NUMBER: 14-AUG-1992
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7MH-060548-00231
TELEPHONE: 313-496-8454
TELEFAX: 313-496-7622
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-14

Query Match 56.9%; Score 61.5; DB 1; Length 29;
Best Local Similarity 69.6%; Pred. No. 0.098;
Matches 16; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

QY 2 RKKAARKKAARKKAARKKA 24
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Db 2 KKAARKKA-KKAARKKAARKKA 23

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; Sequence 12, Application US/08677304
; Patent No. 5721212
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/677,304
; FILING DATE:
; CLASSIFICATION: 530

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds

(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-43

Perfect score: 108

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Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	72	66.7	372	12	US-10-282-1222A-68109 Sequence 68109, A
2	71	65.7	347	12	US-10-282-1222A-66237 Sequence 66237, A
3	71	65.7	347	14	US-10-127-032-120 Sequence 120, App
4	70	64.8	336	12	US-10-282-1222A-69962 Sequence 69962, A
5	67.5	62.5	258	14	US-10-156-761-9957 Sequence 9957, App
6	67.5	62.0	685	15	US-10-369-493-3684 Sequence 3684, App
7	65	60.2	214	12	US-10-282-1222A-62547 Sequence 62547, A
8	65	60.2	214	14	US-10-329-567-27 Sequence 27, Appl
9	65	60.2	428	12	US-10-282-1222A-55748 Sequence 55748, A
10	65	60.2	21	12	US-10-169-613-13 Sequence 13, Appl
11	64.5	59.7	21	12	US-10-390-472-16 Sequence 16, Appl
12	63.5	58.8	60	16	US-10-424-599-185724 Sequence 185724, A
13	63	58.3	61	12	US-10-282-1222A-78190 Sequence 78190, A
14	63	58.3	388	12	US-10-437-963-152005 Sequence 152005, A
15	63	58.3	827	16	US-10-437-963-152005 Sequence 152005, A

Sequence 53742, A
Sequence 8221, App
Sequence 24, Appl
Sequence 198985, A
Sequence 54, Appl
Sequence 104, App
Sequence 54, Appl
Sequence 53, Appl
Sequence 103, App
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Sequence 43, Appl
Sequence 93, Appl
Sequence 93, Appl
Sequence 44, Appl
Sequence 45, Appl

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US-10-424-599-198985
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US-10-393-449-45

ALIGNMENTS

RESULT 1

US-10-282-1222A-68109
; Sequence 68109, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Chlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636


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; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1.
; SEQ ID NO 69962
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match          64.8%; Score 70; DB 12; Length 336;
Best Local Similarity 68.2%; Pred. No. 0.38;
Matches 15; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARKKAARKKAAKAAKAAKAA 22
:|||||:|||||:|||||
Db 174 AKKAAEDAKKAAEDAKKAA 195

RESULT 5
US-10-156-761-9957
; Sequence 9957, Application US/10156761
; Publication No. US2003019018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 9957
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-9957

Query Match          62.5%; Score 67.5; DB 14; Length 258;
Best Local Similarity 68.0%; Pred. No. 0.59;
Matches 17; Conservative 4; Mismatches 3; Indels 1; Gaps 1;

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Db 88 AKKABEARKKAAELAEKAAKA 112

RESULT 6
US-10-369-493-3684
; Sequence 3684, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3684
; LENGTH: 685
; TYPE: PRT
; ORGANISM: Neurospora crassa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(685)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-3684

Query Match          62.0%; Score 67; DB 15; Length 685;
Best Local Similarity 65.2%; Pred. No. 1.8;
Matches 15; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

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US-10-282-122A-62547
; Sequence 62547, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62547
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; LENGTH: 214
; TYPE: PRT
; ORGANISM: Mycobacterium bovis
US-10-282-122A-62547

Query Match      60.2%; Score 65; DB 12; Length 214;
Best Local Similarity 62.5%; Pred. No. 0.99;
Matches 15; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 ARKKAARAKKAARAKKAARAKKA 24
Db 111 AKKAKAPAKKATKAARAKKAATKA 134

RESULT 8
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; Sequence 64817, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 64817
; LENGTH: 214
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-64817

Query Match      60.2%; Score 65; DB 12; Length 214;
Best Local Similarity 62.5%; Pred. No. 0.99;
Matches 15; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

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Db 111 AKKAKAPAKKATKAARAKKAATKA 134

us-09-496-391-43.rapb

RESULT 9
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; Sequence 27, Application US/10229567
; Publication No. US20030092080A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; Utererative Colitis, and Clinical Subtypes Thereof, Using
; Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/229,567
; FILING DATE: 27-Aug-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/417,264
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 09/041,889
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 214 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 27:
US-10-229-567-27

Query Match      60.2%; Score 65; DB 14; Length 214;
Best Local Similarity 62.5%; Pred. No. 0.99;
Matches 15; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 ARKKAARAKKAARAKKAARAKKA 24
Db 111 AKKAKAPAKKATKAARAKKAATKA 134

RESULT 10
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
```

APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match 60.2%; Score 65; DB 12; Length 428;
Best Local Similarity 66.7%; Pred. No. 2;
Matches 16; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARKAAKAAARKKAAKAAKAAKAA 24
DB 214 AAKAAQAEKAAKAAKAAKAAKAA 237

RESULT 11
US-10-169-613-13
; Sequence 13, Application US/10169613
; Publication No. US20030086959A1
; GENERAL INFORMATION:
; APPLICANT: Redkdaal, Cysteine
; APPLICANT: Sverdsen, John
; APPLICANT: Wikman, Mari
; APPLICANT: Soltstad, Torese
; APPLICANT: Yang, Nannan
; TITLE OF INVENTION: Methods of peptide preparation
; FILE REFERENCE: 1181-258
; CURRENT APPLICATION NUMBER: US/10/169,613
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: PCT/GB00/03378
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: GB 0005702.6
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/GB99/02851
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: antimicrobial peptide
US-10-169-613-13

Query Match 59.7%; Score 64.5; DB 12; Length 21;
Best Local Similarity 81.0%; Pred. No. 0.12;
Matches 17; Conservative 1; Mismatches 2; Indels 1; Gaps 1;
QY 1 ARKAAKAAARKKAAKAAKAAKAA 21
DB 2 AAKAAKAA-KKAAKAAKAA 21
RESULT 12
US-10-390-472-16
; Sequence 16, Application US/10390472
; Publication No. US20040087013A1
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; Zhang, Shuguang
; Rich, Alexander
; Dipersio, C. Michael
; Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,472
; FILING DATE: 17-Mar-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284
; FILING DATE: 22-AUG-1994
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-390-472-16

Query Match 58.8%; Score 63.5; DB 16; Length 60;
Best Local Similarity 60.7%; Pred. No. 0.43;
Matches 17; Conservative 2; Mismatches 4; Indels 5; Gaps 1;
QY 1 ARKAAKAAARKKAAKAAKAAKAAK 23
DB 11 AKKAAKAAKAAKAAKAAKAAKAAK 38
RESULT 13
US-10-424-599-185724
; Sequence 185724, Application US/10424599
; Publication No. US20040031072A1

PRIOR FILING DATE: 2001-02-16
: Remaining Prior Application data removed - See File Wrapper or PALM.

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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 11.9406 Seconds
103.766 Million cell updates/sec

Title: US-09-496-391-44
Perfect score: 132
Sequence: 1 GRKKGKGGKGGKGGKGGKGGK 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	87	65.9	641	4	US-09-249-585A-3
2	87	65.9	641	4	US-09-410-399-4
3	80	60.6	29	1	US-08-152-488-4
4	80	60.6	29	1	US-08-303-025-4
5	80	60.6	29	1	US-08-677-304-4
6	80	60.6	29	2	US-08-436-703B-9
7	76	57.6	29	1	US-08-152-488-5
8	76	57.6	29	1	US-08-303-025-5
9	76	57.6	29	1	US-08-677-304-5
10	76	57.6	29	2	US-08-436-703B-10
11	75	56.8	29	1	US-07-694-983-14
12	74	56.1	20	1	US-07-694-983-13
13	74	56.1	260	4	US-09-561-366B-12
14	74	56.1	260	4	US-10-114-176-12
15	68	51.5	29	1	US-08-152-488-7
16	68	51.5	29	1	US-08-303-025-7
17	68	51.5	29	1	US-08-677-304-7
18	68	51.5	29	2	US-08-436-703B-12
19	66	50.0	586	4	US-09-252-991A-24994
20	65	49.2	178	4	US-09-489-039A-8236
21	65	49.2	223	1	US-07-667-276A-10
22	65	49.2	714	2	US-08-990-114-3
23	65	49.2	714	4	US-09-241-333-3
24	64.5	48.9	112	4	US-09-543-681A-8319
25	64	48.5	595	4	US-09-370-838-187
26	64	48.5	1958	1	US-07-945-283-2
27	62.5	47.3	172	4	US-09-134-000C-5565

28 62 47.0 185 4 US-09-489-039A-8929 Sequence 8929, Ap
29 62 47.0 646 4 US-09-328-352-6017 Sequence 6017, Ap
30 61.5 46.6 182 4 US-09-489-039A-8301 Sequence 8301, Ap
31 61.5 46.6 656 2 US-08-343-433B-2 Sequence 2, Appli
32 61.5 46.6 656 3 US-09-214-584A-4 Sequence 4, Appli
33 61 46.2 187 4 US-09-634-238-414 Sequence 414, App
34 61 46.2 937 4 US-09-252-991A-19446 Sequence 19446, A
35 60.5 45.8 160 4 US-09-543-681A-8310 Sequence 8310, Ap
36 60.5 45.8 193 2 US-08-861-549-4 Sequence 4, Appli
37 60.5 45.8 205 2 US-08-861-549-1 Sequence 1, Appli
38 60.5 45.8 205 2 US-08-861-549-3 Sequence 3, Appli
39 60.5 45.8 546 2 US-08-492-027A-8 Sequence 8, Appli
40 60 45.5 29 1 US-08-152-488-1 Sequence 1, Appli
41 60 45.5 29 1 US-08-303-025-1 Sequence 1, Appli
42 60 45.5 29 1 US-08-677-304-1 Sequence 1, Appli
43 60 45.5 29 2 US-08-436-703B-6 Sequence 6, Appli
44 60 45.5 647 2 US-08-770-761A-8 Sequence 8, Appli
45 60 45.5 705 2 US-08-770-761A-7 Sequence 7, Appli

ALIGNMENTS

RESULT 1
US-09-249-585A-3
; Sequence 3, Application US/09249585A
; Patent No. 6417002
; GENERAL INFORMATION:
; APPLICANT: Horlick, Robert
; TITLE OF INVENTION: METHOD FOR MAINTENANCE AND SELECTION OF EPISODES
; FILE REFERENCE: 0867/02905
; CURRENT APPLICATION NUMBER: US/09/249,585A
; CURRENT FILING DATE: 1999-02-11
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Epstein Barr Virus
US-09-249-585A-3

Query Match 65.9%; Score 87; DB 4; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.0042;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

OY 1 GRKKGKGGKGGKGGKGGKGGK 24
DB 328 GRGCGGCGRGGCGRGGCGG 351

RESULT 2
US-09-410-399-4
; Sequence 4, Application US/09410399
; Patent No. 6482587
; GENERAL INFORMATION:
; APPLICANT: Robertson, Erle S.
; APPLICANT: Corter, Murray A.
; TITLE OF INVENTION: Methods to Inhibit or Enhance the Binding of Viral DNA
; FILE REFERENCE: UM-03778
; CURRENT APPLICATION NUMBER: US/09/410,399
; CURRENT FILING DATE: 1999-10-01
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Epstein-Barr virus
US-09-410-399-4

Query Match 65.9%; Score 87; DB 4; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.0042;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGKGGKGGKGGKGGKGGK 24
Db 328 GGRGGSGRGGSGRGGSGRGGSG 351

RESULT 3
US-08-152-488-4
; Sequence 4, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7MG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13

US-08-152-488-4
Query Match 60.6%; Score 80; DB 1; Length 29;
Best Local Similarity 65.2%; Pred. No. 0.0017;
Matches 15; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
QY 2 RKKGKGGKGGKGGKGGKGGK 24
Db 3 KKGKGGKGGKGGKGGKGGKGGG 25
RESULT 4
US-08-303-025-4
; Sequence 4, Application US/08303025

; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS v.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7MH-060548-00231
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE: N/A
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13

US-08-303-025-4
Query Match 60.6%; Score 80; DB 1; Length 29;
Best Local Similarity 65.2%; Pred. No. 0.0017;
Matches 15; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
QY 2 RKKGKGGKGGKGGKGGKGGK 24
Db 3 KKGKGGKGGKGGKGGKGGKGGG 25

RESULT 5
US-08-677-304-4
; Sequence 4, Application US/08677304
; Patent No. 5721212
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US92/08069
;; FILING DATE: 14-AUG-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Rohm, Benita J.
;; REGISTRATION NUMBER: 28,664
;; REFERENCE/DOCKET NUMBER: RM-7WG
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 908-276-3344
;; TELEFAX: 908-276-5543
;; INFORMATION FOR SEQ ID NO: 5:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 29 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: N/A
;; TOPOLOGY: N/A
;; MOLECULE TYPE: peptide
;; ORIGINAL SOURCE:
;; ORGANISM: N/A
;; PUBLICATION INFORMATION:
;; AUTHORS: N/A
;; TITLE: N/A
;; PUBLICATION INFORMATION:
;; DOCUMENT NUMBER: PCT/US92/08069
;; FILING DATE: 14-AUG-1993
US-08-152-488-5

Query Match 57.6%; Score 76; DB 1; Length 29;
Best Local Similarity 61.5%; Pred. No. 0.0049;
Matches 16; Conservative 3; Mismatches 3; Indels 4; Gaps 1;

QY 2 RKKGKGRKKGK---GGRKKGK 23
Db 3 KKGKGGKKGKKGKKGKKGKKGK 28

RESULT 8
US-08-303-025-5
; Sequence 5, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; MEDIUM TYPE: Floppy diskette 3.5" 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS v.6.22
; SOFTWARE: Wordperfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231
; TELECOMMUNICATION INFORMATION:

;; TELEPHONE: 313-496-7622
;; TELEFAX: 313-496-8454
;; INFORMATION FOR SEQ ID NO: 5:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 29 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: N/A
;; TOPOLOGY: N/A
;; MOLECULE TYPE: peptide
;; ORIGINAL SOURCE:
;; ORGANISM: N/A
;; PUBLICATION INFORMATION:
;; AUTHORS: N/A
;; TITLE: N/A
;; DOCUMENT NUMBER: PCT/US92/08069
;; FILING DATE: 14-AUG-1993
US-08-303-025-5

Query Match 57.6%; Score 76; DB 1; Length 29;
Best Local Similarity 61.5%; Pred. No. 0.0049;
Matches 16; Conservative 3; Mismatches 3; Indels 4; Gaps 1;

QY 2 RKKGKGRKKGK---GGRKKGK 23
Db 3 KKGKGGKKGKKGKKGKKGKKGK 28

RESULT 9
US-08-677-304-5
; Sequence 5, Application US/08677304
; Patent No. 5721212
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/677,304
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. 5721212 Relevant
; TOPOLOGY: No. 5721212 Relevant


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; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-677-304-5

Query Match 57.6%; Score 76; DB 1; Length 29;
Best Local Similarity 61.5%; Pred. No. 0.0049;
Matches 16; Conservative 3; Mismatches 3; Indels 4; Gaps 1;

QY 2 RKKGKGGKKGK---GGRKKGK 23
Db 3 KKGKGGKKGKKGKKGKKGKKGK 28

RESULT 10
US-08-436-703B-10
; Sequence 10, Application US/08436703B
; Patent No. 5919761
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR
; TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
; TITLE OF INVENTION: WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 6601 Woodward Avenue
; STREET: Suite 1525
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
; COMPUTER: IBM PC compatible
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; SOFTWARE: Wordperfect 6;
; SOFTWARE: ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,703B
; FILING DATE: 08-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: N/A
; FILING DATE: N/A
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: 7WX-060548-00233
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-965-1976
; TELEFAX: 313-965-1951
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A

US-08-436-703B-10
Query Match 57.6%; Score 76; DB 2; Length 29;
Best Local Similarity 61.5%; Pred. No. 0.0049;
Matches 16; Conservative 3; Mismatches 3; Indels 4; Gaps 1;

QY 2 RKKGKGGKKGKKGK---GGRKKGK 23
Db 3 KKGKGGKKGKKGKKGKKGKKGK 28

RESULT 11
US-07-694-983-14
; Sequence 14, Application US/07694983
; Patent No. 5432260
; GENERAL INFORMATION:
; APPLICANT: Stahl, Philip D.
; TITLE OF INVENTION: HIGH AFFINITY MANNOSE RECEPTOR
; TITLE OF INVENTION: LIGANDS
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Irell & Manella
; STREET: 545 Middlefield Road, Suite 200
; CITY: Menlo Park
; STATE: California
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/694,983
; FILING DATE: 19910503
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murashige, Kate H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 9500-0039.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-327-7250
; TELEFAX: 415-327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1
; OTHER INFORMATION: /label= Ac-
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 29
; OTHER INFORMATION: /label= -NH2
; US-07-694-983-14

Query Match 56.8%; Score 75; DB 1; Length 29;
Best Local Similarity 73.9%; Pred. No. 0.0064;
Matches 17; Conservative 2; Mismatches 2; Indels 2; Gaps 2;

QY 4 KKGKGGKKGKKGKKGKKGKKGK 24
Db 2 KKGKGGKKGKKGKKGKKGKKGK 24

RESULT 12
US-07-694-983-13
; Sequence 13, Application US/07694983
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; Patent No. 5432260
; GENERAL INFORMATION:
; APPLICANT: Stahl, Philip D.
; TITLE OF INVENTION: HIGH AFFINITY MANNOSE RECEPTOR
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESS: Irell & Manella
; STREET: 545 Middlefield Road, Suite 200
; CITY: Menlo Park
; STATE: California
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/694,983
; FILING DATE: 19910503
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murashige, Kate H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 9500-0039.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-327-7250
; TELEFAX: 415-327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1
; OTHER INFORMATION: /label= Ac-
; NAME/KEY: Peptide
; LOCATION: 20
; OTHER INFORMATION: /label= -NH2
; US-07-694-983-13

Query Match 56.1%; Score 74; DB 1; Length 20;
Best Local Similarity 81.0%; Pred. No. 0.006;
Matches 17; Conservative 0; Mismatches 0; Indels 4; Gaps 2;

Qy 4 KGGKGGKGGKGGKGGKGGK 24
Db 2 KGGKGG--KGGKGG--KGGK 18

RESULT 13
US-09-561-366B-12
; Sequence 12, Application US/09561366B
; Patent No. 6399067
; GENERAL INFORMATION:
; APPLICANT: Goldstein, Gideon
; TITLE OF INVENTION: Methods and Compositions for Impairing Multiplication of HIV-1
; FILE REFERENCE: GGP3USA
; CURRENT APPLICATION NUMBER: US/09/561,366B
; CURRENT FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 12
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Human immunodeficiency virus type 1
; FEATURE:

; NAME/KEY: MOD RES
; LOCATION: (1)..(1)
; OTHER INFORMATION: Glu is attached to DnaK (HSP70)
; US-09-561-366B-12

Query Match 56.1%; Score 74; DB 4; Length 260;
Best Local Similarity 52.9%; Pred. No. 0.06;
Matches 18; Conservative 0; Mismatches 6; Indels 10; Gaps 2;

Qy 1 GRKKGKGGK-----GRKKGKGGK-----GRKKGKGGK 24
Db 216 GRKSGSKGLGISYGRKSGSKGLGISYGRKSGSKG 249

RESULT 14
US-10-114-176-12
; Sequence 12, Application US/10114176
; Patent No. 6524582
; GENERAL INFORMATION:
; APPLICANT: Goldstein, Gideon
; TITLE OF INVENTION: Methods and Compositions for Impairing Multiplication of HIV-1
; FILE REFERENCE: GGP3USA
; CURRENT APPLICATION NUMBER: US/10/114,176
; CURRENT FILING DATE: 2002-04-02
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 12
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Human immunodeficiency virus type 1
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (1)..(1)
; OTHER INFORMATION: Glu is attached to DnaK (HSP70)
; US-10-114-176-12

Query Match 56.1%; Score 74; DB 4; Length 260;
Best Local Similarity 52.9%; Pred. No. 0.06;
Matches 18; Conservative 0; Mismatches 6; Indels 10; Gaps 2;

Qy 1 GRKKGKGGK-----GRKKGKGGK-----GRKKGKGGK 24
Db 216 GRKSGSKGLGISYGRKSGSKGLGISYGRKSGSKG 249

RESULT 15
US-08-488-7
; Sequence 7, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J, Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,654
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-152-488-7

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Query Match      51.5%  Score 68;  DB 1;  Length 29;
Best Local Similarity 61.5%  Pred. No. 0.042;
Matches 16;  Conservative 3;  Mismatches 1;  Indels 6;  Gaps 2;

Qy      2  RXKGGKGGKKGK---GGRKKGGK 23
      :|||:|||||:|:|
Db      3  KXGGK--KKGGKKKGGKKKGGK 26

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Search completed: August 17, 2004, 16:14:40
Job time : 12.9406 secs

Result No.	Score	Query Match	%	Length	DB	ID	Description
1	90	68.2	32	16	US-10-667-004-16	Sequence 16, Appl	
2	87	65.9	641	12	US-10-225-838B-22	Sequence 22, Appl	
3	87	65.9	641	14	US-10-138-098-52	Sequence 52, Appl	
4	87	65.9	641	14	US-10-294-804-4	Sequence 4, Appl	
5	87	65.9	641	16	US-10-732-694-11	Sequence 11, Appl	
6	80	60.6	220	12	US-10-282-122A-47799	Sequence 47799, A	
7	76.5	58.0	1683	14	US-10-017-161-1482	Sequence 1482, App	
8	76.5	58.0	1683	15	US-10-232-798-1190	Sequence 1190, App	
9	74	56.1	66	9	US-09-864-761-38038	Sequence 38038, A	
10	74	56.1	230	12	US-10-425-114-56545	Sequence 56545, A	
11	74	56.1	260	13	US-10-144-176-12	Sequence 12, Appl	
12	74	56.1	260	14	US-10-323-013-12	Sequence 12, Appl	
13	74	56.1	713	16	US-10-437-963-170425	Sequence 170425, A	
14	72.5	54.9	49	14	US-10-029-386-30905	Sequence 30905, A	
15	72.5	54.9	49	9	US-09-864-761-36181	Sequence 36181, A	

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; Publication No. US20030211990A1
; GENERAL INFORMATION:
; APPLICANT: NeuronZ Ltd.
; APPLICANT: NeuronZ Biosciences, Inc.
; APPLICANT: Sieg, Frank
; APPLICANT: Hughes, Paul
; TITLE OF INVENTION: Neural Regeneration Peptides and Methods for Their Use In
; TITLE OF INVENTION: Treatment of Brain Damage
; FILE REFERENCE: NRNZ-1023US1
; CURRENT APPLICATION NUMBER: US/10/225,838B
; CURRENT FILING DATE: 2002-08-22
; PRIOR APPLICATION NUMBER: 60/314,952
; PRIOR FILING DATE: 2001-08-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 22
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Epstein Barr Virus
US-10-225-838B-22

Query Match      65.9%; Score 87; DB 12; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.1;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGKGGKGGKGGKGGKGGKGGK 24
DB 328 GRGGGGGGGGGGGGGGGGGGGGGG 351

RESULT 3
US-10-138-098-52
; Sequence 52, Application US/10138098
; Publication No. US20030129169A1
; GENERAL INFORMATION:
; APPLICANT: Krohn, Kai
; APPLICANT: Blazevic, Veena
; APPLICANT: Tahtinen, Marja
; APPLICANT: Ustav, Mart
; APPLICANT: Toots, Urve
; APPLICANT: Mannik, Andres
; APPLICANT: Ranki, Annamari
; APPLICANT: Sikut, Rein
; APPLICANT: Janikson, Kadri
; APPLICANT: Ustav, Ene
; TITLE OF INVENTION: No. US20030129169A1el expression vectors and uses thereof
; FILE REFERENCE: 11041-006-999
; CURRENT APPLICATION NUMBER: US/10/138,098
; CURRENT FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FI 20010922
; PRIOR FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 52
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Human herpesvirus 4
US-10-138-098-52

Query Match      65.9%; Score 87; DB 14; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.1;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGKGGKGGKGGKGGKGGKGGK 24
DB 328 GRGGGGGGGGGGGGGGGGGGGGGG 351

RESULT 4
US-10-294-804-4
; Sequence 4, Application US/10294804
; Publication No. US20030133948A1
; GENERAL INFORMATION:
; APPLICANT: Robertson, Erle S.
; APPLICANT: Cotter, Murray A.
; TITLE OF INVENTION: Methods to Inhibit or Enhance the Binding of Viral DNA
; TITLE OF INVENTION: to Genomic Host DNA
; FILE REFERENCE: UM-03778
; CURRENT APPLICATION NUMBER: US/10/294,804
; CURRENT FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: US/09/410,399
; PRIOR FILING DATE: 1999-10-01
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Epstein-Barr virus
US-10-294-804-4

Query Match      65.9%; Score 87; DB 14; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.1;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGKGGKGGKGGKGGKGGKGGK 24
DB 328 GRGGGGGGGGGGGGGGGGGGGGGG 351

RESULT 5
US-10-732-694-11
; Sequence 11, Application US/10732694
; Publication No. US20040141995A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Rong-Fu
; APPLICANT: Voo, Kuishin
; TITLE OF INVENTION: MHC CLASS I-RESTRICTED AND MHC CLASS II-RESTRICTED EBNA1 PEPTIDES
; FILE REFERENCE: P02723US1
; CURRENT APPLICATION NUMBER: US/10/732,694
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: US 60/432,319
; PRIOR FILING DATE: 2002-12-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Virus
US-10-732-694-11

Query Match      65.9%; Score 87; DB 16; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.1;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGKGGKGGKGGKGGKGGKGGK 24
DB 328 GRGGGGGGGGGGGGGGGGGGGGGG 351

RESULT 6
US-10-282-122A-47799
; Sequence 47799, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
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; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47799
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Burkholderia cepacia
US-10-282-122A-47799

Query Match 60.6%; Score 80; DB 12; Length 220;
Best Local Similarity 60.3%; Pred. No. 0.23;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps

QY 2 RKGKGGRKKGKGGKGGKGGK 24
      |||::|::|::|::|::|::|
DB 34 RRGSGGGVQNGKKGKGGK 56

RESULT 7
US-10-017-161-1482
; Sequence 1482, Application US/10017161
; Publication No. US20030143668A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAWA, YUTAKA
; APPLICANT: ABEURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1482
; LENGTH: 1683
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (5)..(7)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (9)..(12)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES

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; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (110)..(124)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (127)..(142)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (147)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (149)..(150)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (154)..(156)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (166)..(167)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (171)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (173)..(174)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (178)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (183)..(189)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (192)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (196)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (198)..(201)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (203)..(204)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (206)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (209)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (211)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (216)
; OTHER INFORMATION: Variable amino acid
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; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (220)..(222)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (226)..(228)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (235)..(236)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (239)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (248)..(249)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (256)
; OTHER INFORMATION: Variable amino acid
; FEATURE:

Query Match          58.0%; Score 76.5; DB 14; Length 1683;
Best Local Similarity 46.2%; Pred. No. 3;
Matches 18; Conservative 4; Mismatches 2; Indels 15; Gaps 2;

QY 1 GRKKG-----GKGRKKGGKGG--RKKGKGG 24
    |||||
Db 265 GRKXXGXXGKGGKGGEGGKGGGEGGKXKKGKGG 303

RESULT 8
US-10-292-798-1190
; Sequence 1190, Application US/10292798
; Publication No. US20030235833A1
; GENERAL INFORMATION:
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 084335/166
; CURRENT APPLICATION NUMBER: US/10/292,798
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 10/017,161
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: JP 2001-246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2070
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1190
; LENGTH: 1683
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (5)..(5)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (9)..(12)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (16)..(19)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (21)..(22)
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OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (24)..(26)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (28)..(29)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (33)..(34)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (36)..(36)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (38)..(39)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (45)..(45)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (47)..(51)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (53)..(54)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (56)..(66)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (68)..(68)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (71)..(72)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (74)..(79)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (84)..(84)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (86)..(92)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (94)..(96)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (98)..(98)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (100)..(102)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (106)..(106)
OTHER INFORMATION: Variable amino acid

FEATURE:
NAME/KEY: MOD RES
LOCATION: (108)..(108)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (110)..(113)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (115)..(124)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (127)..(127)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (129)..(142)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (147)..(147)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (149)..(150)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (154)..(156)
OTHER INFORMATION: Variable amino acid
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NAME/KEY: MOD RES
LOCATION: (166)..(167)
OTHER INFORMATION: Variable amino acid
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NAME/KEY: MOD RES
LOCATION: (171)..(171)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (173)..(174)
OTHER INFORMATION: Variable amino acid
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NAME/KEY: MOD RES
LOCATION: (178)..(178)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (184)..(184)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (186)..(189)
OTHER INFORMATION: Variable amino acid
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NAME/KEY: MOD RES
LOCATION: (192)..(192)
OTHER INFORMATION: Variable amino acid
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NAME/KEY: MOD RES
LOCATION: (196)..(196)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (198)..(201)
OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (203)..(204)
OTHER INFORMATION: Variable amino acid
FEATURE:

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; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 38038
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL022323.7
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 7.3
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 7.2
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 7.8
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 7.1
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 9.4
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 9.6
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 9.6
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 8.4
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 8
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 8.2
US-09-864-761-38038

Query Match 56.1%; Score 74; DB 9; Length 66;
Best Local Similarity 62.5%; Pred No. 0.35;
Matches 15; Conservative 3; Mismatches 4; Indels 2; Gaps 1;

QY 1 GRKGGKGGKRGKGGK--GGRKGG 22
||:|||||:||||:
Db 29 GGRGKGKGGKGTGGREGGKGG 52

RESULT 10
US-10-425-114-56545
; Sequence 56545, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53)313/B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 56545
; LENGTH: 230
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3060-013-D7_FLI.pep
US-10-425-114-56545

Query Match 56.1%; Score 74; DB 12; Length 230;
Best Local Similarity 47.8%; Pred. No. 1;
Matches 11; Conservative 9; Mismatches 3; Indels 0; Gaps 0;

QY 1 GRKGGKGGKRGKGGKGGKGGK 23
||:||||:||||:||||:
Db 111 GRRGGEGRRRGEGGSRGGE 133

RESULT 11
US-10-114-176-12
; Sequence 12, Application US/10114176
; Publication No. US2002019232A1
; GENERAL INFORMATION:

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RESULT 13
 US-10-437-963-170425
 ; Sequence 170425, Application US/10437963
 ; Publication No. US20040123343A1
 ; GENERAL INFORMATION:
 ; APPLICANT: La Rosa, Thomas J.
 ; APPLICANT: Kovacic, David K.
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Cao, Yongwei
 ; APPLICANT: Wu, Wei
 ; APPLICANT: Boukharov, Andrey A.
 ; APPLICANT: Barbazuk, Brad
 ; APPLICANT: Li, Ping
 ; STATE OF INVENTION: Since Nucleic Acid Molecules and Other Molecules Associated With

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RESULT 15
US-09-864-761-36181
; Sequence 36181, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wenheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aecmica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312

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;; PRIOR FILING DATE: 2000-02-04
;; PRIOR APPLICATION NUMBER: US 60/207,456
;; PRIOR FILING DATE: 2000-05-26
;; PRIOR APPLICATION NUMBER: US 09/632,366
;; PRIOR FILING DATE: 2000-08-03
;; PRIOR APPLICATION NUMBER: GB 24263.6
;; PRIOR FILING DATE: 2000-10-04
;; PRIOR APPLICATION NUMBER: US 60/236,359
;; PRIOR FILING DATE: 2000-09-27
;; PRIOR APPLICATION NUMBER: PCT/US01/00666
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00667
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00664
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00669
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00665
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00668
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00663
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00662
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00661
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00670
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: US 60/234,687
;; PRIOR FILING DATE: 2000-09-21
;; PRIOR APPLICATION NUMBER: US 09/608,408
;; PRIOR FILING DATE: 2000-06-30
;; PRIOR APPLICATION NUMBER: US 09/774,203
;; PRIOR FILING DATE: 2001-01-29
;; NUMBER OF SEQ ID NOS: 49117
;; SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
;; SEQ ID NO 36181
;; LENGTH: 141
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; OTHER INFORMATION: MAP TO AL022333.1
;; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.4
;; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.5
;; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.4
;; OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 3.3
;; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.3
;; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 3
;; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 3.2
;; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.4
;; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.9
US-09-864-761-36181

Query Match 54.9%; Score 72.5; DB 9; Length 141;
Best Local Similarity 58.3%; Pred. No. 0.96;
Matches 14; Conservative 5; Mismatches 4; Indels 1; Gaps 1;

Qy 2 RKGKGKGGKKG-KGGRKKGK 24
Db 10 RSRGKGGRGGRGGRGGRG 33

Search completed: August 17, 2004, 17:19:22
Job time : 38.8416 secs

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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 11.9406 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-49
Perfect score: 117
Sequence: 1 ARKKPAKARKKPAKARKKPAK 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/prodata/2/iaa/5B_COMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	70	59.8	105	2	US-08-668-255-5
2	68	58.1	96	2	US-08-668-255-7
3	63	53.8	61	1	US-08-346-849-17
4	63	53.8	61	2	US-08-293-284A-17
5	63	53.8	61	4	US-08-898-300-17
6	62	53.0	96	2	US-08-668-255-9
7	61	52.1	60	1	US-08-346-849-16
8	61	52.1	60	2	US-08-293-284A-16
9	61	52.1	60	4	US-08-898-300-16
10	59	50.4	208	4	US-09-252-991A-31172
11	59	50.4	214	3	US-09-041-889-27
12	59	50.4	214	4	US-09-417-264-27
13	59	50.4	223	3	US-09-095-855-201
14	59	50.4	223	4	US-09-205-426-201
15	57	48.7	316	4	US-09-252-991A-32957
16	57	48.7	472	4	US-09-252-991A-17011
17	56.5	48.3	269	4	US-09-408-020-6
18	56	47.9	218	3	US-09-041-889-4
19	56	47.9	218	3	US-08-837-059-4
20	56	47.9	218	4	US-09-417-264-4
21	56	47.9	407	4	US-09-252-991A-29581
22	55	47.0	60	2	US-08-769-211-2
23	54.5	46.6	212	3	US-09-041-889-1
24	54.5	46.6	212	3	US-08-837-058-1
25	54.5	46.6	212	4	US-09-417-264-1
26	54	46.2	49	3	US-08-995-172-14
27	54	46.2	49	3	US-08-839-624-26

28	54	46.2	49	4	US-09-150-812-26	Sequence 26, Appl
29	54	46.2	157	4	US-09-732-210-769	Sequence 769, App
30	54	46.2	188	4	US-09-252-991A-17582	Sequence 17582, A
31	54	46.2	941	4	US-07-757-022B-14	Sequence 14, Appl
32	54	46.2	1022	4	US-07-757-022B-84	Sequence 84, Appl
33	54	46.2	1038	4	US-07-757-022B-74	Sequence 74, Appl
34	54	46.2	1049	4	US-07-757-022B-58	Sequence 58, Appl
35	54	46.2	1128	1	US-08-111-939-2	Sequence 2, Appl
36	54	46.2	1128	4	US-09-060-482-8	Sequence 8, Appl
37	54	46.2	1128	4	US-07-757-022B-104	Sequence 104, App
38	54	46.2	1140	4	US-07-757-022B-44	Sequence 44, Appl
39	54	46.2	1270	4	US-07-757-022B-42	Sequence 42, Appl
40	54	46.2	1313	4	US-07-757-022B-142	Sequence 142, App
41	54	46.2	1314	4	US-07-757-022B-50	Sequence 50, Appl
42	54	46.2	1314	4	US-07-757-022B-46	Sequence 46, Appl
43	54	46.2	1320	4	US-07-757-022B-60	Sequence 60, Appl
44	54	46.2	1320	4	US-07-757-022B-48	Sequence 48, Appl
45	54	46.2	1354	4	US-07-757-022B-48	

ALIGNMENTS

RESULT 1
US-08-668-255-5
; Sequence 5, Application US/08668255
; Patent No. 5965143
; GENERAL INFORMATION:
; APPLICANT: FASEL, Nicolas Joseph
; APPLICANT: GLASER, Theresa Ann
; TITLE OF INVENTION: IMMUNITY TO TRYPAANOSOMATIDS SPECIES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pillsbury Madison & Sutro
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 720 Kb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/668,255
; FILING DATE: June 20, 1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 96200665.6
; FILING DATE: March 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul N. Kokulis
; REGISTRATION NUMBER: 16,773
; REFERENCE/DOCKET NUMBER: 11422/224090
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 202-822-0944
; TELEX: 6714627
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 105 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-668-255-5

Query Match 59.8%; Score 70; DB 2; Length 105;
Best Local Similarity 71.4%; Pred. No. 0.011;
Matches 15; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 KKPAKARKKPAKARKKPAK 23
Db 50 KKPAKVVKKPAKVVKKPAK 70

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RESULT 2
US-08-668-255-7
; Sequence 7, Application US/08668255
; Patent No. 5965143
; GENERAL INFORMATION:
; APPLICANT: FASEL, Nicolas Joseph
; APPLICANT: GLASER, Theresa Ann
; TITLE OF INVENTION: IMMUNITY TO TRYPANOSOMATIDS SPECIES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pillsbury Madison & Sutro
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 720 Kb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/668,255
; FILING DATE: June 20, 1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 96200655.6
; FILING DATE: March 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul N. Kokulis
; REGISTRATION NUMBER: 16,773
; REFERENCE/DOCKET NUMBER: 11422/224090
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 202-822-0944
; TELEX: 6714627
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 96 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; US-08-668-255-7

Query Match 58.1%; Score 68; DB 2; Length 96;
Best Local Similarity 66.7%; Pred.No. 0.018;
Matches 14; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 3 KKPAAKPKAKPAKAAKPKAK 23
Db 41 KKPAAKPKAKPAKAAKPKAK 61

RESULT 3
US-08-346-849-17
; Sequence 17, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.

US-08-346-849-17
; Sequence 17, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 84
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284A
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
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US-08-346-849-17
; Sequence 17, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 84
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/346,849
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 61 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-346-849-17

Query Match 53.8%; Score 63; DB 1; Length 61;
Best Local Similarity 53.1%; Pred.No. 0.053;
Matches 17; Conservative 1; Mismatches 6; Indels 8; Gaps 1;

QY 1 ARKKPAKAA-----RKPKAKAAKKPKAKA 24
Db 25 AAKPKKAAAVKSKPKKAKPKAAATKKAAS 56

RESULT 4
US-08-293-284A-17
; Sequence 17, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 84
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284A
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
```


ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173-4799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/346.849
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973.326
FILING DATE: 28 DECEMBER 1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-346-849-16

Query Match 52.1%; Score 61; DB 1; Length 60;
Best Local Similarity 59.1%; Pred. NO. 0.095;
Matches 13; Conservative 1; Mismatches 8; Indels

Qy 3 KKPAKAARKKPAKAARKKPAKA 24
||| ||| ||| : |||
Db 30 KKPKKAARKKPAKSPKKA 51

RESULT 8
 US-08-293-284A-16
 ; Sequence 16, Application US/08293284A
 ; Patent No. 595343
 ; GENERAL INFORMATION:
 ; APPLICANT: Holmes, Todd
 ; APPLICANT: Zhang, Shuang
 ; APPLICANT: Rich, Alexander
 ; APPLICANT: Dipersio, C. Michael
 ; APPLICANT: Lockshin, Curtis
 ; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
 ; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
 ; TITLE OF INVENTION: THEREFOR
 ; NUMBER OF SEQUENCES: 64
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSER: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
 ; STREET: Two Militia Drive
 ; CITY: Lexington
 ; STATE: Massachusetts
 ; COUNTRY: U.S.A.
 ; ZIP: 02173-4799
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/293,284A
 ; FILING DATE: 22-AUG-1994
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:

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1 / APPLICATION NUMBER: 07/973,326
2 / FILING DATE: 28-DEC-1992
3 / ATTORNEY/AGENT INFORMATION:
4 / NAME: Brook, David E.
5 /
6 / REGISTRATION NUMBER: 22,592
7 / REFERENCE/DOCKET NUMBER: MIT-6008A
8 / TELECOMMUNICATION INFORMATION:
9 / TELEPHONE: (617) 861-6240
10 / TELEFAX: (617) 861-9540
11 / INFORMATION FOR SEQ ID NO: 16:
12 / SEQUENCE CHARACTERISTICS:
13 / LENGTH: 60 amino acids
14 / TYPE: amino acid
15 / TOPOLOGY: linear
16 / MOLECULE TYPE: protein
17 /
18 / US-08-293-284A-16
19 /
20 / Query Match 52.1%; Score 61; DB 2; Length 60;
21 / Best Local Similarity 59.1%; Pred. NO. 0.095;
22 / Matches 13; Conservative 1; Mismatches 8; Indels 0; Gap
23 /
24 / QY 3 KKPAAKAAARKKPAKAAKPKAKA 24
25 / ||| ||| ||| ||| |||
26 / Db 30 KKPAAKAAKAKKPAKAKSPKKA 51
27 /
28 / RESULT 9
29 / US-08-898-300-16
30 / Sequence 16, Application US/08898300
31 / Patent No. 6548630
32 / GENERAL INFORMATION:
33 / APPLICANT: Zhang, Shuguang
34 / APPLICANT: Lockshin, Curtis
35 / APPLICANT: Rich, Alexander
36 / APPLICANT: Holmes, Todd
37 / TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
38 / TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
39 / TITLE OF INVENTION: THEREFOR
40 / NUMBER OF SEQUENCES: 64
41 / CORRESPONDENCE ADDRESS:
42 / ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
43 / STREET: Two Militia Drive
44 / CITY: Lexington
45 / STATE: Massachusetts
46 / COUNTRY: U.S.A.
47 / ZIP: 02173-4799
48 /
49 / COMPUTER READABLE FORM:
50 / MEDIUM TYPE: Floppy disk
51 / COMPUTER: IBM PC compatible
52 / OPERATING SYSTEM: PC-DOS/MS-DOS
53 / SOFTWARE: PatentIn Release #1.0, Version #1.25
54 / CURRENT APPLICATION DATA:
55 / APPLICATION NUMBER: US/08/898,300
56 / FILING DATE: 22 JULY 1997
57 / CLASSIFICATION: 514
58 / PRIOR APPLICATION DATA:
59 / PRIOR APPLICATION NUMBER: 08/346,849
60 / FILING DATE: 30 NOVEMBER 1994
61 / PRIOR APPLICATION DATA:
62 / APPLICATION NUMBER: 07/973,326
63 / FILING DATE: 28 DECEMBER 1992
64 / ATTORNEY/AGENT INFORMATION:
65 / NAME: Brook, David E.
66 / REGISTRATION NUMBER: 22,592
67 / REFERENCE/DOCKET NUMBER: MIT-6008PB
68 / TELECOMMUNICATION INFORMATION:
69 / TELEPHONE: (781) 861-6240
70 / TELEFAX: (781) 861-9540
71 / INFORMATION FOR SEQ ID NO: 16:
72 / SEQUENCE CHARACTERISTICS:
73 / LENGTH: 60 amino acids
74 / TYPE: amino acid
75 / TOPOLOGY: linear

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MOLECULE TYPE: protein
US-08-898-300-16

Query Match
Best Local Similarity 52.1%; Score 61; DB 4; Length 60;
Matches 13; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 3 KKPAAARKKPAKAAKPKA 24
Db 30 KKPAAARKKPAKAAKPKA 51

RESULT 10
US-09-252-991A-31172
; Sequence 31172, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-07-27
; PRIOR APPLICATION NUMBER: US 60/094,190
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 31172
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31172

Query Match
Best Local Similarity 50.4%; Score 59; DB 4; Length 208;
Matches 14; Conservative 1; Mismatches 9; Indels 0; Gaps 0;

QY 1 ARKPKAAARKKPAKAAKPKA 24
Db 153 ARTRPAKARRAGPATAGGSPATA 176

RESULT 11
US-09-041-889-27
; Sequence 27, Application US/09041889
; Patent No. 6033864
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/041,889
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/041,889
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 214 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-041-889-27

Query Match
Best Local Similarity 50.4%; Score 59; DB 4; Length 214;
Matches 13; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 214 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-041-889-27

Query Match
Best Local Similarity 56.5%; Pred. No. 0.6;
Matches 13; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARKPKAAARKKPAKAAKPKA 23
Db 115 AKKAPAKKATKAARKKATKAPAR 137

RESULT 12
US-09-417-264-27
; Sequence 27, Application US/09417264
; Patent No. 6537768
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/417,264
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/041,889
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 214 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-417-264-27

Query Match
Best Local Similarity 50.4%; Score 59; DB 4; Length 214;
Matches 13; Conservative 2; Mismatches 8; Indels 0; Gaps 0;
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Qy 1 ARKKPAKAAARKKPAKAAARKKPAK 23
| : | | | | | | | | | | :
Db 115 AKKAPAKKATKAARKKAAATKAPAR 137

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RESULT 13
US-09-095-855-201
; Sequence 201, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TITLE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:

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Query Match 50.4%; Score 59; DB 3; Length 223;
Best Local Similarity 56.5%; Pred. No. 0.63;
Matches 13; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

1 ARKKPAKAARKKPAKAARKKPAK 23
↓: ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
116 AKAPAKKAARKKAAAPAKKAPAK 138

RESULT 14
US-09-205-426-201
Sequence No. 201, Application US/09205426
Patent No. 5406704
GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Tan, Paul L. J.

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; TITLE OF INVENTION: Compounds and Methods for Treatment and
; TITLE OF INVENTION: Diagnosis of Mycobacterial Infections
; FILE REFERENCE: 11000.1002c4
; CURRENT APPLICATION NUMBER: US/09/205,426

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Query Match      50.4%; Score 59; DB 4; Length 223;
Best Local Similarity 56.5%; Pred. No. 0.63;
Matches 13; Conservative 2; Mismatches 8; Indels 0; Gaps 0;
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1 ARKKPAKAARKKPAKAARKKPAK 23
| : | | | | | : | | | |
116 AKKAPAKKAARKKPAKAARKKPAK 138

RESULT 15
 US-09-252-991A-32957
 ; Sequence 32957 Application US/09252991A
 ; Patent No. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

Query Match	48.7%;	Score 57;	DB 4;	Length 316;
Best Local Similarity	63.6%;	Pred. No. 1.6;		
Matches 14:	Conservative	0;	Mismatches 8;	Indels 0;
Gaps	0;			

1 ARKKPAKAARKKPAKAARKPA 22
181 AAKPAKAAPAAKPAKPA 202

Search completed: August 17, 2004, 16:14:40
Job time : 11.9406 secs

GenCore version 5.1.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-49

Perfect score: 117

Sequence: 1 ARKKPAKAAKKPAKAAKKPAK 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
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8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
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18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	70	59.8	105	13	US-10-093-892-5
2	68	58.1	96	13	Sequence 5, Appli
3	64	54.7	212	12	Sequence 7, Appli
4	63	53.8	61	16	Sequence 61735, A
5	63	53.8	81	12	Sequence 17, Appl
6	62.5	53.4	101	12	Sequence 240100,
7	62.5	53.4	293	16	Sequence 270857,
8	62.5	53.4	947	12	Sequence 186290,
9	62	53.0	96	13	Sequence 63665, A
10	61	52.1	60	16	Sequence 9, Appli
11	61	52.1	210	12	Sequence 16, Appl
12	61	52.1	215	12	Sequence 71653, A
13	61	52.1	215	12	Sequence 53794, A
14	61	52.1	298	12	Sequence 61609, A
15	59.5	50.9	179	12	Sequence 56861, A
					Sequence 238898,

59.5 50.9 180 12 US-10-282-122A-61833 Sequence 61833, A
59 50.4 130 14 US-10-262-209-2 Sequence 2, Appli
59 50.4 130 16 US-10-240-430-5 Sequence 5, Appli
59 50.4 214 12 US-10-282-122A-62547 Sequence 62547, A
59 50.4 214 12 US-10-282-122A-64817 Sequence 64817, A
59 50.4 214 14 US-10-229-567-27 Sequence 27, Appl
59 50.4 223 13 US-10-051-643-201 Sequence 201, App
59 50.4 223 14 US-10-205-979-52 Sequence 52, Appl
59 50.4 777 14 US-10-128-714-8221 Sequence 8221, Ap
59 50.4 369 10 US-09-820-843A-95 Sequence 95, Appl
58 49.6 369 12 US-10-282-122A-76514 Sequence 76514, A
58 49.6 989 12 US-10-282-122A-43119 Sequence 43119, A
57.5 49.1 917 14 US-10-156-761-10847 Sequence 10047, A
57 48.7 372 12 US-10-282-122A-68109 Sequence 68109, A
56.5 48.3 269 13 US-10-027-806-6 Sequence 6, Appli
56.5 48.3 269 13 US-10-034-623-6 Sequence 6, Appli
56.5 48.3 269 14 US-10-027-801-6 Sequence 6, Appli
56.5 48.3 269 14 US-10-029-120-6 Sequence 6, Appli
56 47.9 77 16 US-10-240-430-6 Sequence 4, Appli
56 47.9 218 14 US-10-229-567-4 Sequence 1, Appli
56 47.9 234 16 US-10-262-209-1 Sequence 2, Appli
56 47.9 234 16 US-10-240-430-2 Sequence 2, Appli
56 47.9 347 12 US-10-282-122A-66237 Sequence 66237, A
56 47.9 347 14 US-10-127-032-120 Sequence 120, App
56 47.9 526 12 US-10-282-122A-53742 Sequence 53742, A
55.5 47.4 302 12 US-10-424-599-248776 Sequence 248776, A
55.5 47.4 318 12 US-10-282-122A-69337 Sequence 69337, A
55.5 47.4 340 12 US-10-425-114-40848 Sequence 40848, A
55 47.0 142 12 US-10-425-114-40769 Sequence 40769, A
55 47.0 142 12 US-10-425-114-40847 Sequence 40847, A

ALIGNMENTS

RESULT 1
US-10-093-892-5
; Sequence 5, Application US/10093892
; Publication No. US20020177697A1
; GENERAL INFORMATION:
; APPLICANT: FASEL, Nicolas Joseph
; GLASER, Theresa Ann
; TITLE OF INVENTION: IMMUNITY TO TRYPAANOSOMATIDS SPECIES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pillsbury Madison & Suro
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 720 Kb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/093, 892
; FILING DATE: 11-Mar-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/668, 255
; FILING DATE: June 20, 1996
; APPLICATION NUMBER: EP 96200665.6
; FILING DATE: March 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul N. Kokulis
; REGISTRATION NUMBER: 16,773
; REFERENCE/DOCKET NUMBER: 11422/224090
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 202-822-0944
; TELEX: 6714627

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 105 amino acids
TYPE: amino acid
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-10-093-892-5

Query Match 59.8%; Score 70; DB 13; Length 105;
Best Local Similarity 71.4%; Pred. No. 0.091; 6; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 KKPAAARKKPAKAAARKKPAK 23
||||| ||||| |||||
DB 50 KKPAAKVVKPAKVVKKPAK 70

RESULT 2

US-10-093-892-7
Sequence 7, Application US/10093892
Publication No. US20020177697A1
GENERAL INFORMATION:
APPLICANT: FASEL, Nicolas Joseph
GLASER, Theresa Ann
TITLE OF INVENTION: IMMUNITY TO TRYPAOSOMATIDS SPECIES
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pillsbury Madison & Sutro
STREET: 1100 New York Avenue, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3918
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 720 Kb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/093,892
FILING DATE: 11-Mar-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/668,255
FILING DATE: June 20, 1996
APPLICATION NUMBER: EP 96200665.6
FILING DATE: March 12, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Paul N. Kokulis
REGISTRATION NUMBER: 16,773
REFERENCE/DOCKET NUMBER: 11422/224090
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627

INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 96 amino acids
TYPE: amino acid
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-093-892-7

Query Match 58.1%; Score 68; DB 13; Length 96;
Best Local Similarity 66.7%; Pred. No. 0.15; 6; Indels 0; Gaps 0;
Matches 14; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 3 KKPAAARKKPAKAAARKKPAK 23
||||| :||| |||||
DB 41 KKPAAKVAEPKPAKVVKKPAK 61

RESULT 3

US-10-282-122A-61735
Sequence 61735, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 61735
LENGTH: 212
TYPE: PRT
ORGANISM: Mycobacterium avium
US-10-282-122A-61735

Query Match 54.7%; Score 64; DB 12; Length 212;
Best Local Similarity 63.0%; Pred. No. 1; 3; Indels 4; Gaps 2;
Matches 17; Conservative 3; Mismatches 3; Indels 4; Gaps 2;

QY 1 ARKKPAK--AARKKPAK--AARKKPAK 23
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DB 116 AKKAPAKKAAKAPAKKAAKAPAK 142

RESULT 4

US-10-390-472-17
Sequence 17, Application US/10390472
Publication No. US20040087013A1
GENERAL INFORMATION:

APPLICANT: Holmes, Todd
Zhang, Shuguang
Rich, Alexander
DiPersio, C. Michael
Lockshin, Curtis

TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
THEREFOR
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:

ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173-4799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/390,472
FILING DATE: 17-Mar-2003
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/293,284
FILING DATE: 22-AUG-1994
APPLICATION NUMBER: 07/973,326
FILING DATE: 28-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 61 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-10-390-472-17

Query Match 53.8%; Score 63; DB 16; Length 61;
Best Local Similarity 53.1%; Pred. No. 0.41;
Matches 17; Conservative 1; Mismatches 6; Indels 8; Gaps 1;

QY 1 ARKKPAKAA-----RKPKAKAARKKPKA 24
DB 25 AAKPKKAAAVKSPKPKAKPAAATKKAAS 56

RESULT 5

US-10-424-599-240100
; Sequence 240100, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 240100
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_58838C.1.pep
US-10-424-599-240100

Query Match 53.8%; Score 63; DB 12; Length 81;
Best Local Similarity 44.4%; Pred. No. 0.54;
Matches 16; Conservative 3; Mismatches 3; Indels 14; Gaps 1;

QY 3 KPKAKARKKPAK-----AAKKPKA 24

DB 37 EKPAKAAEKPAKPAAPATEKPAKAAAKKAPAKA 72

RESULT 6

US-10-424-599-270857
; Sequence 270857, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 270857
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_86602C.1.pep
US-10-424-599-270857

Query Match 53.4%; Score 62.5; DB 12; Length 101;
Best Local Similarity 69.6%; Pred. No. 0.78;
Matches 16; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

QY 1 ARKKPAKA-ARKKPAKAAARKKPA 22
DB 12 ASKAPAKAPASKAPAKAPAKKPA 34

RESULT 7

US-10-437-963-186290
; Sequence 186290, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 186290
; LENGTH: 293
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_83103C.1.pep
US-10-437-963-186290

Query Match 53.4%; Score 62.5; DB 16; Length 293;
Best Local Similarity 41.7%; Pred. No. 2.2;
Matches 15; Conservative 4; Mismatches 2; Indels 15; Gaps 1;

QY 3 KXPAKAAAR-----KKPAKAAARKKPAK 23
DB 236 RPPAKAAKTSAXDTPSKAAAPAAKPPAAAKKAPAK 271

RESULT 8

US-10-282-122A-63665
 ; Sequence 63665, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:

APPLICANT: Wang, Liangsu
 APPLICANT: Zamudio, Carlos
 APPLICANT: Malone, Cheryl
 APPLICANT: Haselbeck, Robert
 APPLICANT: Ohlsen, Kari
 APPLICANT: Zyskind, Judith
 APPLICANT: Wall, Daniel
 APPLICANT: Trawick, John
 APPLICANT: Carr, Grant
 APPLICANT: Yamamoto, Robert
 APPLICANT: Forsyth, R.
 APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

; FILE REFERENCE: ELITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A

; CURRENT FILING DATE: 2003-02-20

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: 60/191,078

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: 60/206,848

; PRIOR FILING DATE: 2000-05-23

; PRIOR APPLICATION NUMBER: 60/207,727

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: 60/230,335

; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: 60/230,347

; PRIOR FILING DATE: 2000-09-09

; PRIOR APPLICATION NUMBER: 60/242,578

; PRIOR FILING DATE: 2000-10-23

; PRIOR APPLICATION NUMBER: 60/253,625

; PRIOR FILING DATE: 2000-11-27

; PRIOR APPLICATION NUMBER: 60/257,931

; PRIOR FILING DATE: 2000-12-22

; PRIOR APPLICATION NUMBER: 60/267,636

; PRIOR FILING DATE: 2001-02-09

; PRIOR APPLICATION NUMBER: 60/269,308

; PRIOR FILING DATE: 2001-02-16

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 63665

; LENGTH: 947

; TYPE: PRT

; ORGANISM: Mycobacterium leprae

US-10-282-122A-63665

Query Match 53.4%; Score 62.5; DB 12; Length 947;
 Best Local Similarity 68.2%; Pred. No. 6.7;
 Matches 15; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

Qy 3 KKPAAKAKKPA-KAARKPAK 23

Db 919 KRPAAKAKKPAKAAKAAKAAK 940

RESULT 9

US-10-093-892-9

; Sequence 9, Application US/10093892

; Publication No. US20020177697A1

; GENERAL INFORMATION:

APPLICANT: FASEL, Nicolas Joseph

GLASER, Theresa Ann

; TITLE OF INVENTION: IMMUNITY TO TRYPAOSOMATIDS SPECIES

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pillsbury Madison & Sutro

STREET: 1100 New York Avenue, N.W.

CITY: Washington

STATE: DC

COUNTRY: USA

ZIP: 20005-3918
 COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 in, 720 KB

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/093,892

FILING DATE: 11-Mar-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/668,255

FILING DATE: June 20, 1996

APPLICATION NUMBER: EP 96200665.6

FILING DATE: March 12, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Paul N. Kokulis

REGISTRATION NUMBER: 16,773

REFERENCE/DOCKET NUMBER: 11422/224090

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-861-3000

TELEFAX: 202-822-0944

TELEX: 6714627

INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:

LENGTH: 96 amino acids

TYPE: amino acid

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 9:

US-10-093-892-9

Query Match 53.0%; Score 62; DB 13; Length 96;

Best Local Similarity 61.9%; Pred. No. 0.86;

Matches 13; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy 3 KKPAAKAKKPAKAAKPAK 23

Db 41 KKPAAKAAKPAKAAKPAK 61

RESULT 10

US-10-390-472-16

; Sequence 16, Application US/10390472

; Publication No. US20040087013A1

; GENERAL INFORMATION:

APPLICANT: Holmes, Todd

Zhang, Shuang

Rich, Alexander

Dipersio, C. Michael

Locke, Curtis

Locke, Curtis

TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY

SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES

THEREFOR

NUMBER OF SEQUENCES: 64

CORRESPONDENCE ADDRESS:

ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

STREET: Two Militia Drive

CITY: Lexington

STATE: Massachusetts

COUNTRY: U.S.A.

ZIP: 02173-4799

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/390,472

FILING DATE: 17-Mar-2003

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/293,284

FILING DATE: 22-AUG-1994

APPLICATION NUMBER: 07/973,326
FILING DATE: 28-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-390-472-16

Query Match 52.1%; Score 61; DB 16; Length 60;
Best Local Similarity 59.1%; Pred. No. 0.73;
Matches 13; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 3 KPKAAARKKPKAAARKKPKA 24
DB 30 KPKKAAAKKPKAAARKKPKA 51

RESULT 11
US-10-425-114-71653
; Sequence 71653, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 71653
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3067-008-F3_FLI.pep
US-10-425-114-71653

Query Match 52.1%; Score 61; DB 12; Length 210;
Best Local Similarity 66.7%; Pred. No. 2.4;
Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 4 KPAKAARKKPKAAARKKPKA 24
DB 144 KPAKAAAKSKKAAAKPKA 154

RESULT 12
US-10-425-114-53794
; Sequence 53794, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 53794
LENGTH: 215
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: UC-ZMFLB73178A11_FLI.pep
US-10-425-114-53794

Query Match 52.1%; Score 61; DB 12; Length 215;
Best Local Similarity 66.7%; Pred. No. 2.5;
Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 4 KPAKAARKKPKAAARKKPKA 24
DB 149 KPAKAAAKSKKAAAKPKA 169

RESULT 13
US-10-425-114-61609
; Sequence 61609, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 61609
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3078-003-F7_FLI.pep
US-10-425-114-61609

Query Match 52.1%; Score 61; DB 12; Length 215;
Best Local Similarity 66.7%; Pred. No. 2.5;
Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 4 KPAKAARKKPKAAARKKPKA 24
DB 149 KPAKAAAKSKKAAAKPKA 169

RESULT 14
US-10-425-114-56061
; Sequence 56061, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128

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; SEQ ID NO 56061
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMROB73006D02_FLI.pep
US-10-425-114-56061
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Query Match          52.1%; Score 61; DB 12; Length 298;
Best Local Similarity 44.1%; Pred. No. 3.4;
Matches 15; Conservative 3; Mismatches 2; Indels 14; Gaps 1;
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OY 4 KPAKAAR-----KKPAKAARKKPAK 23
DB 243 RPAKAATSAKDTGKGAAPAKPAKAAAKKAPAK 276
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```
RESULT 15
US-10-424-599-238898
; Sequence 238898, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 238898
; LENGTH: 179
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MBT3847_5774C.1.pep
US-10-424-599-238898
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Query Match          50.9%; Score 59.5; DB 12; Length 179;
Best Local Similarity 62.5%; Pred. No. 3.2;
Matches 15; Conservative 2; Mismatches 6; Indels 1; Gaps 1;
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OY 2 RKKPAKAARKK-PAKAARKKPAK 24
DB 131 KAKPAKAAPKKVGAKPAKKTVPKA 154
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Search completed: August 17, 2004, 17:19:23
Job time : 38.8416 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 11.9406 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-51
Perfect score: 108
Sequence: 1 AKKARAARAKKARAARAKKARA 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A-COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B-COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A-COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B-COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCUTUS-COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	76	70.4	223	3	US-09-095-855-201
2	76	70.4	223	4	US-09-205-426-201
3	63	58.3	469	4	US-09-489-039A-13565
4	60.5	56.0	28	1	US-08-303-025-12
5	60.5	56.0	28	2	US-08-436-703B-1
6	60.5	56.0	32	1	US-08-152-488-13
7	60.5	56.0	32	1	US-08-303-025-15
8	60.5	56.0	32	1	US-08-677-304-13
9	60.5	56.0	32	2	US-08-436-703B-2
10	60.5	56.0	33	1	US-08-303-025-16
11	60.5	56.0	33	2	US-08-436-703B-4
12	60.5	56.0	218	3	US-09-041-889-4
13	60.5	56.0	218	3	US-08-837-058-4
14	60.5	56.0	218	4	US-09-417-264-4
15	60.5	56.0	1507	3	US-08-929-329-5
16	60	55.6	29	1	US-08-152-488-12
17	60	55.6	29	1	US-08-303-025-14
18	60	55.6	29	2	US-08-677-304-12
19	60	55.6	29	2	US-08-436-703B-16
20	60	55.6	109	4	US-09-405-743A-7
21	57	52.8	60	1	US-08-346-849-16
22	57	52.8	60	2	US-08-293-284A-16
23	57	52.8	60	4	US-08-898-300-16
24	57	52.8	181	4	US-09-252-931A-23085
25	56.5	52.3	26	2	US-08-894-339-6
26	56.5	52.3	26	3	US-09-306-044-6
27	55.5	51.4	77	4	US-09-405-743A-5

28	55.5	51.4	86	4	US-09-405-743A-6	Sequence 6, Appli
29	55	50.9	407	4	US-09-252-931A-29581	Sequence 29581, A
30	55	50.9	756	4	US-09-963-137-184	Sequence 184, App
31	54.5	50.5	29	1	US-08-152-488-10	Sequence 10, Appl
32	54.5	50.5	29	1	US-08-152-488-11	Sequence 11, Appl
33	54.5	50.5	29	1	US-08-303-025-10	Sequence 10, Appl
34	54.5	50.5	29	1	US-08-303-025-11	Sequence 11, Appl
35	54.5	50.5	29	1	US-08-303-025-13	Sequence 13, Appl
36	54.5	50.5	29	1	US-08-677-304-11	Sequence 10, Appl
37	54.5	50.5	29	1	US-08-677-304-11	Sequence 11, Appl
38	54.5	50.5	29	2	US-08-436-703B-3	Sequence 3, Appli
39	54.5	50.5	29	2	US-08-436-703B-15	Sequence 15, Appl
40	54.5	50.5	66	4	US-09-405-743A-4	Sequence 4, Appli
41	54	50.0	24	3	US-08-993-008A-4	Sequence 4, Appli
42	54	50.0	29	1	US-08-152-488-3	Sequence 3, Appli
43	54	50.0	29	1	US-08-303-025-3	Sequence 3, Appli
44	54	50.0	29	1	US-08-677-304-3	Sequence 3, Appli
45	54	50.0	29	2	US-08-436-703B-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-09-095-855-201
; Sequence 201, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TITILE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 201:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 223 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein

APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-1

Query Match 56.0%; Score 60.5; DB 2; Length 28;
Best Local Similarity 73.1%; Pred. No. 0.088; 0; Indels 3; Gaps 3;
Matches 19; Conservative 4; Mismatches 0

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
DB 2 AKKAKKAKKAKKAKKAKKAKKAKKAK 27

RESULT 6
US-08-152-488-13
Sequence 13, Application US/08152488
Patent No. 5534619
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.

STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-152-488-13

Query Match 56.0%; Score 60.5; DB 1; Length 32;
Best Local Similarity 73.1%; Pred. No. 0.1;
Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
DB 6 AKKAKKAKKAKKAKKAKKAKKAKKAK 31

RESULT 7
US-08-303-025-15
Sequence 15, Application US/08303025
Patent No. 5614494
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 150 West Jefferson, Suite 2500
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226-4415
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS v.6.22

SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7WH-060548-00231
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-15

Query Match 56.0%; Score 60.5; DB 1; Length 32;
Best Local Similarity 73.1%; Pred. No. 0.1;
Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
DB 6 AKKA-RAAKKA-RAAKKA-RAAKKAR 31

RESULT 8
US-08-677-304-13
Sequence 13, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069

FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: No. 5721212 Relevant
TOPOLOGY: No. 5721212 Relevant
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-677-304-13

Query Match 56.0%; Score 60.5; DB 1; Length 32;
Best Local Similarity 73.1%; Pred. No. 0.1;
Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
DB 6 AKKA-RAAKKA-RAAKKA-RAAKKAR 31

RESULT 9
US-08-436-703B-2
Sequence 2, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Suite 1525
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44MB, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:

TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-2

Query Match 56.0%; Score 60.5; DB 2; Length 32;
Best Local Similarity 73.1%; Pred. No. 0.1;
Matches 13; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
Db 6 AKKAKKAAKKAKKAAKKAKKA 31

RESULT 10
US-08-303-025-16
Sequence 16, Application US/08303025
Patent No. 5614494
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 150 West Jefferson, Suite 2500
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226-4415
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS V.6.22
SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 7WK-060548-00231
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A

PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-16

Query Match 56.0%; Score 60.5; DB 1; Length 33;
Best Local Similarity 73.1%; Pred. No. 0.1;
Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
Db 7 AKKAKKAAKKAKKAAKKAKKA 32

RESULT 11
US-08-436-703B-4
Sequence 4, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Suite 1525
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-4

Query Match 56.0%; Score 60.5; DB 2; Length 33;
Best Local Similarity 73.1%; Pred. No. 0.1;

Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKA 23
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 Db 7 AKKAKAAKKA-RAAKKA-RAAKKA 32

RESULT 12

US-09-041-889-4
 ; Sequence 4, Application US/09041889
 ; Patent No. 6033864
 ; GENERAL INFORMATION:
 ; APPLICANT: Braun, Jonathan
 ; APPLICANT: Cohavy, Offer
 ; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
 ; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
 ; TITLE OF INVENTION: Microbial UC PANCA antigens
 ; NUMBER OF SEQUENCES: 41
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Campbell & Flores LLP
 ; STREET: 4370 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/041.889
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/837,058
 ; FILING DATE: 11-APR-1997
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Campbell, Cathryn A.
 ; REGISTRATION NUMBER: 31,815
 ; REFERENCE/DOCKET NUMBER: P-PM 3006
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 535-9001
 ; TELEFAX: (619) 535-8949
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 218 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; FEATURE:
 ; NAME/KEY: Peptide
 ; LOCATION: 1..218
 ; OTHER INFORMATION: /note= "product = Human Histone"
 ; US-09-041-889-4

Query Match 56.0%; Score 60.5; DB 3; Length 218;
 Best Local Similarity 55.6%; Pred. No. 0.55;
 Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKA 24
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 Db 166 AKKAKPKKAKKPKKAPKAPKAKA 192

RESULT 13

US-08-837-058-4
 ; Sequence 4, Application US/08837058
 ; Patent No. 6074835
 ; GENERAL INFORMATION:
 ; APPLICANT: Braun, Jonathan
 ; APPLICANT: Targan, Stephen R.
 ; APPLICANT: Eggena, Mark

; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
 ; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
 ; TITLE OF INVENTION: Histone H1
 ; NUMBER OF SEQUENCES: 26
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Campbell & Flores LLP
 ; STREET: 4370 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/837,058
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Campbell, Cathryn A.
 ; REGISTRATION NUMBER: 31,815
 ; REFERENCE/DOCKET NUMBER: P-PM 2438
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 535-9001
 ; TELEFAX: (619) 535-8949
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 218 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; FEATURE:
 ; NAME/KEY: Peptide
 ; LOCATION: 1..218
 ; OTHER INFORMATION: /note= "product = Human Histone"
 ; US-08-837-058-4

Query Match 56.0%; Score 60.5; DB 3; Length 218;
 Best Local Similarity 55.6%; Pred. No. 0.55;
 Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKA 24
 ||||:||||:||||:||||:
 Db 166 AKKAKPKKAKKPKKAPKAPKAKA 192

RESULT 14

US-09-417-264-4
 ; Sequence 4, Application US/09417264
 ; Patent No. 6537768
 ; GENERAL INFORMATION:
 ; APPLICANT: Braun, Jonathan
 ; APPLICANT: Cohavy, Offer

; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
 ; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
 ; TITLE OF INVENTION: Microbial UC PANCA antigens
 ; NUMBER OF SEQUENCES: 41
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Campbell & Flores LLP
 ; STREET: 4370 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122

; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/417,264

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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds

(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-51

Perfect score: 108

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Scoring table: BLOSUM62

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Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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- 18: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pdb:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	76	70.4	223	14	US-10-205-979-52
3	64	59.3	243	9	US-09-771-161A-127
4	62.5	57.9	428	12	US-10-282-122A-55748
5	60.5	56.0	55	16	US-10-240-430-8
6	60.5	56.0	66	16	US-10-240-430-7
7	60.5	56.0	130	14	US-10-262-209-2
8	60.5	56.0	130	16	US-10-240-430-5
9	60.5	56.0	218	14	US-10-239-567-4
10	60.5	56.0	234	14	US-10-262-209-1
11	60.5	56.0	234	16	US-10-240-430-2
12	60	55.6	109	9	US-09-816-989A-7
13	59	54.6	372	12	US-10-282-122A-68109
14	58	53.7	293	16	US-10-437-963-186290
15	57.5	53.2	272	14	US-10-156-761-12370

16	57	52.8	26	9	US-09-888-721-2	Sequence 2, Appli
17	57	52.8	26	9	US-09-888-721-32	Sequence 32, Appl
18	57	52.8	60	16	US-10-390-472-16	Sequence 16, Appl
19	57	52.8	323	12	US-10-282-122A-59321	Sequence 59321, A
20	57	52.8	373	16	US-10-437-963-125161	Sequence 125161, A
21	56	51.9	347	12	US-10-282-122A-66237	Sequence 66237, A
22	56	51.9	347	14	US-10-127-032-120	Sequence 120, App
23	55.5	51.4	77	9	US-09-816-989A-5	Sequence 5, Appli
24	55.5	51.4	86	9	US-09-816-989A-6	Sequence 6, Appli
25	55.5	51.4	838	14	US-10-156-761-10342	Sequence 10342, A
26	55	50.9	72	12	US-10-424-599-174862	Sequence 174862, A
27	55	50.9	298	12	US-10-425-114-56061	Sequence 56061, A
28	55	50.9	344	15	US-10-369-493-1440	Sequence 1440, App
29	55	50.9	373	12	US-10-424-599-144844	Sequence 144844, A
30	55	50.9	756	12	US-09-963-131-184	Sequence 184, App
31	55	50.9	788	14	US-10-156-761-11306	Sequence 11306, A
32	54.5	50.5	66	9	US-09-816-989A-4	Sequence 4, Appli
33	54.5	50.5	421	12	US-10-282-122A-56483	Sequence 56483, A
34	54	50.0	336	12	US-10-282-122A-69962	Sequence 69962, A
35	54	50.0	539	15	US-10-369-493-17058	Sequence 17058, A
36	54	50.0	1168	15	US-10-369-493-3980	Sequence 3980, App
37	53.5	49.5	56	9	US-09-816-989A-3	Sequence 3, Appli
38	53.5	49.5	214	12	US-10-282-122A-62547	Sequence 62547, A
39	53.5	49.5	214	12	US-10-282-122A-64817	Sequence 64817, A
40	53.5	49.5	214	14	US-10-229-567-27	Sequence 27, Appl
41	53	49.1	137	12	US-10-424-599-159975	Sequence 159975, A
42	53	49.1	137	12	US-10-424-599-159976	Sequence 159976, A
43	53	49.1	137	12	US-10-424-599-241375	Sequence 241375, A
44	53	49.1	137	12	US-10-424-599-241400	Sequence 241400, A
45	53	49.1	211	16	US-10-437-963-116545	Sequence 116545, A

ALIGNMENTS

RESULT 1

US-10-051-643-201
; Sequence 201, Application US/10051643
; Publication No. US20020197265A1
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; TITLE OF INVENTION: Methods and Compounds for the Treatment
; TITLE OF INVENTION: of Immunologically-Mediated Diseases of the Respiratory
; FILE REFERENCE: 11000.1008c2
; CURRENT APPLICATION NUMBER: US/10/051,643
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US09/156,181
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: US 08/996,624
; PRIOR FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 201
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-051-643-201

Query Match 70.4%; Score 76; DB 13; Length 223;
Best Local Similarity 81.8%; Pred. No. 0.014;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 AKKARAARAKKARAKKARA 22
Db 147 AKKATAAKKAAAPAKKATAAKKA 168

RESULT 2

US-10-205-979-52
; Sequence 52, Application US/10205979
; Publication No. US20030147861A1

```

; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; APPLICANT: Abernethy, Nevin
; TITLE OF INVENTION: Compounds and Methods for the Modulation
; TITLE OF INVENTION: of Immune Responses
; FILE REFERENCE: 11000.1063U
; CURRENT APPLICATION NUMBER: US/10/205,979
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/308,446
; PRIOR FILING DATE: 2001-07-26
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-205-979-52

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```

Query Match          70.4%; Score 76; DB 14; Length 223;
Best Local Similarity 81.8%; Pred. No. 0.014;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY      1 AKKAAAKKAAKAAKAAKAA 22
      ||||| ||||| ||||| |||||
DB      147 AKKAAKAAKAAKAAKAAKAA 168

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RESULT 3
US-09-771-161A-127
; Sequence 127, Application US/09771161A
; Patent No. US20020110811A1
; GENERAL INFORMATION:
; APPLICANT: LEVINE, et al.
; TITLE OF INVENTION: VARIANTS OF PROTEIN KINASES
; FILE REFERENCE: 802620-2005.1
; CURRENT APPLICATION NUMBER: US/09/771.161A
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 05/724,676
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 136776
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 135619
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 273
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 127
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-771-161A-127

```

```

Query Match          59.3%; Score 64; DB 9; Length 243;
Best Local Similarity 60.9%; Pred. No. 0.53;
Matches 14; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

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QY      2 KKAAKAAKAAKAAKAAKAA 24
      ||||| ||||| ||||| |||||
DB      9 KKAAKAAKAAKAAKAAKAA 31

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RESULT 4
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel

```

```

; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282.122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

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Query Match          57.9%; Score 62.5; DB 12; Length 428;
Best Local Similarity 70.8%; Pred. No. 1.4;
Matches 17; Conservative 3; Mismatches 3; Indels 1; Gaps 1;

```

```

QY      1 AKKAAKAAKAAKAAKAAKAA 24
      ||||| ||||| ||||| |||||
DB      231 AKKAAKAAKAAKAAKAAKAA 253

```

```

RESULT 5
US-10-240-430-8
; Sequence 8, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegbir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJS-6402
; CURRENT APPLICATION NUMBER: US/10/240.430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-8

```

```

Query Match          56.0%; Score 60.5; DB 16; Length 55;

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Best Local Similarity 55.6%; Pred. No. 0.35;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAKAKKAAKAAKAAK---KAA 24
||||:||||:||||:||||:||||:||||:
Db 12 AKKAKPKKAAKAAKPKKAPKSPAKAKA 38

RESULT 6
US-10-240-430-7
; Sequence 7, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; CURRENT APPLICATION NUMBER: US/10/240,430
; FILE REFERENCE: GJE-6402
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 7
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-7

Query Match 56.0%; Score 60.5; DB 16; Length 66;
Best Local Similarity 55.6%; Pred. No. 0.42;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAKAKKAAKAAKAAK---KAA 24
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Db 12 AKKAKPKKAAKAAKPKKAPKSPAKAKA 38

RESULT 7
US-10-262-209-2
; Sequence 2, Application US/10262209
; Publication No. US20030125239A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Compositions for Drug Delivery
; FILE REFERENCE: GJE-6703
; CURRENT APPLICATION NUMBER: US/10/262,209
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: UK 0218324.2
; PRIOR FILING DATE: 2002-08-07
; PRIOR APPLICATION NUMBER: PCT/GB01/01699
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 2
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-262-209-2

Query Match 56.0%; Score 60.5; DB 14; Length 130;
Best Local Similarity 55.6%; Pred. No. 0.81;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAKAKKAAKAAKAAK---KAA 24
||||:||||:||||:||||:||||:||||:
Db 76 AKKAKPKKAAKAAKPKKAPKSPAKAKA 102

RESULT 8
US-10-240-430-5
; Sequence 5, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 5
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-5

Query Match 56.0%; Score 60.5; DB 16; Length 130;
Best Local Similarity 55.6%; Pred. No. 0.81;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAKAKKAAKAAKAAK---KAA 24
||||:||||:||||:||||:||||:||||:
Db 76 AKKAKPKKAAKAAKPKKAPKSPAKAKA 102

RESULT 9
US-10-229-567-4
; Sequence 4, Application US/10229567
; Publication No. US20030092080A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; Uterine Cervical Intraepithelial Neoplasia, and Clinical Subtypes Thereof, Using
; Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/229,567
; FILING DATE: 27-Aug-2002
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/417,264
; FILING DATE: <unknown>
; APPLICATION NUMBER: US 09/041,889
; FILING DATE: <unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-PM 3006
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-9001
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 218 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 FEATURE:
 NAME/KEY: Peptide
 LOCATION: 1..218
 OTHER INFORMATION: /note= "product = Human Histone
 H1-S-4"
 SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 US-10-229-567-4

Query Match 56.0%; Score 60.5; DB 14; Length 218;
 Best Local Similarity 55.6%; Pred. No. 1.3;
 Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAKAAKAAKAAKAAKAAK---KARA 24
 ||||:||||:||||:||||:||||:||||:
 DB 166 AKKASPKKAAKAAKPKKAPKSPAKAKA 192

RESULT 10

US-10-262-209-1
 ; Sequence 1, Application US/10262209
 ; Publication No. US20030125239A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Crisanti, Andrea
 ; APPLICANT: Essegir, Selma
 ; TITLE OF INVENTION: Compositions for Drug Delivery
 ; FILE REFERENCE: GUE-6703
 ; CURRENT APPLICATION NUMBER: US/10/262,209
 ; CURRENT FILING DATE: 2002-09-30
 ; PRIOR APPLICATION NUMBER: UK 0218324.2
 ; PRIOR FILING DATE: 2002-08-07
 ; PRIOR APPLICATION NUMBER: PCT/GB01/01699
 ; PRIOR FILING DATE: 2001-04-12
 ; PRIOR APPLICATION NUMBER: UK 0102667.3
 ; PRIOR FILING DATE: 2001-02-02
 ; PRIOR APPLICATION NUMBER: UK 0009080.3
 ; PRIOR FILING DATE: 2000-04-12
 ; NUMBER OF SEQ ID NOS: 2
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 1
 ; LENGTH: 234
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-262-209-1

Query Match 56.0%; Score 60.5; DB 14; Length 234;
 Best Local Similarity 55.6%; Pred. No. 1.4;
 Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAKAAKAAKAAKAAKAAK---KARA 24
 ||||:||||:||||:||||:||||:||||:
 DB 167 AKKASPKKAAKAAKPKKAPKSPAKAKA 193

RESULT 11

US-10-240-430-2
 ; Sequence 2, Application US/10240430
 ; Publication No. US20040110928A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Crisanti, Andrea
 ; APPLICANT: Essegir, Selma
 ; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
 ; FILE REFERENCE: GUE-6402
 ; CURRENT APPLICATION NUMBER: US/10/240,430

; CURRENT FILING DATE: 2003-04-15
 ; PRIOR APPLICATION NUMBER: PCT/GB01/01697
 ; PRIOR FILING DATE: 2001-04-12
 ; PRIOR APPLICATION NUMBER: UK 0102667.3
 ; PRIOR FILING DATE: 2001-02-02
 ; PRIOR APPLICATION NUMBER: UK 0009080.3
 ; PRIOR FILING DATE: 2000-04-12
 ; NUMBER OF SEQ ID NOS: 14
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 2
 ; LENGTH: 234
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-240-430-2

Query Match 56.0%; Score 60.5; DB 16; Length 234;
 Best Local Similarity 55.6%; Pred. No. 1.4;
 Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAKAAKAAKAAKAAKAAK---KARA 24
 ||||:||||:||||:||||:||||:||||:
 DB 167 AKKASPKKAAKAAKPKKAPKSPAKAKA 193

RESULT 12

US-09-816-989A-7
 ; Sequence 7, Application US/09816989A
 ; Patent No. US20020115103A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Gad, Alexander
 ; APPLICANT: Lis, Doris
 ; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKER
 ; FILE REFERENCE: 2609/60807-A-PCT-US
 ; CURRENT APPLICATION NUMBER: US/09/816,989A
 ; CURRENT FILING DATE: 2001-03-23
 ; PRIOR APPLICATION NUMBER: 60/101,693
 ; PRIOR FILING DATE: 1998-09-25
 ; PRIOR APPLICATION NUMBER: PCT/US99/22402
 ; PRIOR FILING DATE: 1999-09-24
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 7
 ; LENGTH: 109
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
 US-09-816-989A-7

Query Match 55.6%; Score 60; DB 9; Length 109;
 Best Local Similarity 60.9%; Pred. No. 0.79;
 Matches 14; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 KKAAKAAKAAKAAKAAKAAKARA 24
 ||||:||||:||||:||||:||||:||||:
 DB 22 KKAYAKKEAKAYKAAEAKKKAKA 44

RESULT 13

US-10-262-122A-68109
 ; Sequence 68109, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant

```

Best Local Similarity 62.5%; Pred.No. 3.8;
Matches 15; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY      1 AKKRAAKKARAANKKARAANKKARA 24
      ||| ||| ||| ||| ||| |||
Db      258 AKKPAKAAKAPAKKAAAPAKKAAA 281

RESULT 15
US-10-156-761-12370
; Sequence 12370, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 45109
; SEQ ID NO 12370
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12370

Query Match      53.2%; Score 57.5; DB 14; Length 272;
Best Local Similarity 51.7%; Pred.No. 4.1;
Matches 15; Conservative 4; Mismatches 5; Indels 5; Gaps 1;

QY      1 AKKAR-----AAKKRAAKKARAANKKARA 24
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Db      94 AKQKSLADAKKKAATKKAARARAAA 122

Search completed: August 17, 2004, 17:19:23
Job time : 37.8416 secs

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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 8.95545 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-54

Perfect score: 81

Sequence: 1 ARRAKARRAKARRAKA 18

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Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 4: /cgn2_6/prodata/2/iaa/6B_COMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	52	64.2	134	4	US-09-252-991A-30158
2	51	63.0	907	4	US-09-252-991A-24114
3	48	59.3	844	4	US-09-252-991A-27184
4	47	58.0	38	2	US-08-436-703B-17
5	47	58.0	39	2	US-08-436-703B-5
6	47	58.0	346	3	US-09-352-990-23
7	46	56.8	218	3	US-09-041-889-4
8	46	56.8	218	3	US-08-837-058-4
9	46	56.8	218	4	US-09-417-264-4
10	45	56.8	338	4	US-09-252-991A-16820
11	45	55.6	92	4	US-09-056-556-228
12	45	55.6	92	4	US-09-072-967-223
13	45	55.6	92	4	US-09-072-967-228
14	45	55.6	160	4	US-09-056-556-235
15	45	55.6	160	4	US-09-072-956-230
16	45	55.6	160	4	US-09-072-967-235
17	45	55.6	197	4	US-09-252-991A-27204
18	45	55.6	1213	3	US-09-413-814-79
19	44	54.3	19	2	US-08-660-592-10
20	44	54.3	139	4	US-09-770-834-13
21	44	54.3	181	4	US-09-252-991A-23085
22	43	53.1	128	4	US-09-489-039A-9063
23	43	53.1	147	4	US-09-252-991A-23465
24	43	53.1	204	4	US-09-134-000C-3554
25	42.5	52.5	21	2	US-08-660-592-9
26	42.5	52.5	21	3	US-09-166-930A-7
27	42.5	52.5	143	4	US-09-252-991A-21367

Sequence 16834, A
Sequence 6, Appli
Sequence 6, Appli
Sequence 769, App
Sequence 25663, A
Sequence 17560, A
Sequence 26049, A
Sequence 24758, A
Sequence 18768, A
Sequence 184, App
Sequence 20213, A
Sequence 17196, A
Sequence 25, Appl
Sequence 25, Appl
Sequence 4, Appli
Sequence 97, Appli
Sequence 3, Appli

42.5 52.5 156 4 US-09-252-991A-16834
42 51.9 26 2 US-08-894-339-6
42 51.9 26 3 US-03-306-044-6
42 51.9 157 4 US-03-732-210-769
42 51.9 306 4 US-03-252-991A-25663
42 51.9 506 4 US-09-252-991A-17560
42 51.9 531 4 US-09-252-991A-26049
42 51.9 614 4 US-09-252-991A-24758
42 51.9 656 4 US-09-252-991A-18768
42 51.9 756 4 US-09-963-137-184
42 51.9 284 4 US-09-252-991A-20213
41.5 51.2 284 4 US-09-252-991A-17196
41.5 51.2 527 4 US-08-346-849-25
41 50.6 16 1 US-08-293-284A-25
41 50.6 16 2 US-08-898-300-25
41 50.6 16 4 US-08-993-008A-4
41 50.6 24 3 US-09-030-619-97
41 50.6 25 4 US-08-152-488-3
41 50.6 29 1 US-08-152-488-3

ALIGNMENTS

RESULT 1
US-09-252-991A-30158
; Sequence 30158, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30158
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30158

Query Match 64.2%; Score 52; DB 4; Length 134;
Best Local Similarity 64.7%; Pred. No. 1;
Matches 11; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
QY 1 ARRAKARRAKARRAK 17
DB 64 ARCAARRARRARR 80

RESULT 2
US-09-252-991A-24114
; Sequence 24114, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24114
; LENGTH: 907
; TYPE: PRT

ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24114

Query Match 63.0%; Score 51; DB 4; Length 907;
Best Local Similarity 58.8%; Pred. No. 8.1;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARRAKARRAKARRAK 17
DB 95 ARRAARRRRSARRAR 111

RESULT 3
US-09-252-991A-27184
Sequence 27184, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 27184
LENGTH: 844
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27184

Query Match 59.3%; Score 48; DB 4; Length 844;
Best Local Similarity 61.1%; Pred. No. 20;
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKARRAKARRAKA 18
DB 139 ARRAARRAKARRAKA 156

RESULT 4
US-08-436-703B-17
Sequence 17, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
STREET: Suite 1525
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: US/08/436,703B
TELECOMMUNICATION INFORMATION:

CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE: N/A
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-17

Query Match 58.0%; Score 47; DB 2; Length 38;
Best Local Similarity 73.7%; Pred. No. 1.5;
Matches 14; Conservative 3; Mismatches 0; Indels 2; Gaps 2;

QY 1 ARRA-KARRA-KARRAK 17
DB 6 ARRAARRARRARRARRAR 24

RESULT 5
US-08-436-703B-5
Sequence 5, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
STREET: Suite 1525
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:


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; TELEPHONE: 313-965-1976
; TELEFAX: 313-965-1951
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 39 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: N/A
;   TOPOLOGY: N/A
;   MOLECULE TYPE: peptide
;   ORIGINAL SOURCE:
;   ORGANISM: N/A
;   PUBLICATION INFORMATION:
;   AUTHORS: N/A
;   TITLE: N/A
; US-08-436-703B-5

Query Match      58.0%; Score 47; DB 2; Length 39;
Best Local Similarity 73.4%; Pred. No. 1.5;
Matches 14; Conservative 3; Mismatches 0; Indels 2; Gaps 2;

QY 1 ARRA-KAARRA-KAARRAK 17
Db 6 ARRAARRAARRAARRAR 24

RESULT 6
US-09-352-990-23
; Sequence 23, Application US/09352990
; Patent No. 6255090
; GENERAL INFORMATION:
; APPLICANT: Farnodu, Layo O.
; APPLICANT: Crozco, Buddy
; APPLICANT: Rafalski, Antoni
; TITLE OF INVENTION: Plant Aminoacyl-tRNA Synthetase
; FILE REFERENCE: BB-1191
; CURRENT APPLICATION NUMBER: US/09/352,990
; CURRENT FILING DATE: 1999-07-14
; EARLIER APPLICATION NUMBER: 60/092,866
; EARLIER FILING DATE: July 15, 1998
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-352-990-23

Query Match      58.0%; Score 47; DB 3; Length 346;
Best Local Similarity 64.3%; Pred. No. 12;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 5 KAARRAKAARRAKA 18
Db 12 KGAKKAKAARRAKA 25

RESULT 7
US-09-041-889-4
; Sequence 4, Application US/09041889
; Patent No. 603864
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Microbial UC pANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA

; TELEPHONE: 313-965-1976
; TELEFAX: 313-965-1951
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 39 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: N/A
;   TOPOLOGY: N/A
;   MOLECULE TYPE: peptide
;   ORIGINAL SOURCE:
;   ORGANISM: N/A
;   PUBLICATION INFORMATION:
;   AUTHORS: N/A
;   TITLE: N/A
; US-08-436-703B-5

Query Match      56.8%; Score 46; DB 3; Length 218;
Best Local Similarity 50.0%; Pred. No. 10;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARRAKAARRAKAARRAKA 18
Db 166 AKKAKPKKAKAARRAKA 183

RESULT 8
US-08-837-058-4
; Sequence 4, Application US/08837058
; Patent No. 6074835
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan R.
; APPLICANT: Egena, Mark
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Histone H1
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/837,058
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/837,058
; FILING DATE: 11-APR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 218 amino acids
;   TYPE: amino acid
;   TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1..218
; OTHER INFORMATION: /note= "product = Human Histone
; OTHER INFORMATION: H1-S-4"
; US-09-041-889-4
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/ / TELECOMMUNICATION INFORMATION:
/ / TELEPHONE: (619) 535-9001
/ / TELEFAX: (619) 535-8949
/ / INFORMATION FOR SEQ ID NO: 4:
/ / SEQUENCE CHARACTERISTICS:
/ / LENGTH: 218 amino acids
/ / TYPE: amino acid
/ / TOPOLOGY: linear
/ /
/ / FEATURE:
/ / NAME/KEY: Peptide
/ / LOCATION: 1..218
/ / OTHER INFORMATION: /note="protein
/ / OTHER INFORMATION: H1-S-4"
/ / US-08-837-058-4

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Query Match 56.8%; Score 46; DB 3; Length 218;
Best Local Similarity 50.0%; Pred. No. 10;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

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Qy 1 ARRAKAARRAKAARRAKA 18
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Db 166 AKKASPKAKAKAKPKKA 183
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RESULT 9
US-09-417-264-4
; Sequence 4, Application US/09417264
; Patent No. 6537768

; GENERAL INFORMATION:
 ; APPLICANT: Braun, Jonathan
 ; APPLICANT: Cohavy, Offer

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NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122

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CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,889
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006

TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 4:

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;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 218 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
;

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;
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; NAME/KEY: Peptide
; LOCATION: 1..218
; OTHER INFORMATION:
FEATURE:

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; ; OTHER INFORMATION: /note= "product = Human Histone
; ; OTHER INFORMATION: H1-S-4"
US-09-417-264-4

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US-09-417-264-4

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Best Local Similarity 50.0%; Pred. No. 10;
Matches 9; Conservative 6; Mismatches 3; Indels

Qy 1 ARRAKARRAKARRAKA 18
::: :::::
Db 166 AKKASPKAKAAPPKA 183

RESULT 10

US-09-252-991A-16820
; Sequence 16820, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

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1 FILE REFERENCE: 107196.136
2 CURRENT APPLICATION NUMBER: US/09/252,991A
3
4 CURRENT FILING DATE: 1999-03-18
5 PRIOR APPLICATION NUMBER: US 60/074,788
6
7 PRIOR FILING DATE: 1998-02-18
8 PRIOR APPLICATION NUMBER: US 60/094,190
9
10 PRIOR FILING DATE: 1998-07-27
11 NUMBER OF SEQ IDS NOS: 33142

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; SEQ ID NO 16820
; LENGTH: 338

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; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16820

Query Match 56.8%; Score 46; DB 4; Length 338;
Best Local Similarity 43.3%; Pred. No. 16;
Matches 13; Conservative 3; Mismatches 0; Indels

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QY      2  PRAKAAARRA-----KAARRAK 17
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        :|||||:
Db      193 PRAEAAARRAGSRADPRAAPAVARRAARR 222
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RECEIVED 11

US-09-056-556-228
; Sequence 228, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: USA
 ZIP: 98104-7092

FILE: 201017022
: COMPUTER READABLE FORM:

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: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/056,556
: FILING DATE: 07-APR-1998
:

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CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

TELEFAX: (206) 682-6031

TREATMENT

CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 235:
SEQUENCE CHARACTERISTICS:
LENGTH: 160 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-056-556-235

Query Match 55.6%; Score 45; DB 4; Length 160;
Best Local Similarity 58.8%; Pred. No. 11;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RRAKARRAKAARRAKA 18
: : : : :
Db 22 QRAAALEKAAARRARA 38

RESULT 15
US-09-072-596-230
Sequence 230, Application US/09072596
Patent No. 6458366

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Hedrick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 230:
SEQUENCE CHARACTERISTICS:
LENGTH: 160 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-072-596-230

Query Match 55.6%; Score 45; DB 4; Length 160;
Best Local Similarity 58.8%; Pred. No. 11;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RRAKARRAKAARRAKA 18
: : : : :
Db 22 QRAAALEKAAARRARA 38

Search completed: August 17, 2004, 16:14:41
Job time : 8.95545 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 28.3812 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-54

Perfect score: 81

Sequence: 1 ARRAKARRAKARRAKA 18

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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- 2: /cgn2_6/ptodata/1/pubpaa/PTCT_NEW_PUB.pep.*
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- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
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- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	49	60.5	88	16	US-10-437-963-185672, Sequence 185672,
2	48	59.3	200	12	US-10-425-114-70601, Sequence 70601, A
3	48	59.3	243	9	US-09-771-161A-127, Sequence 127, App
4	48	59.3	840	9	US-09-815-242-5198, Sequence 5198, App
5	48	59.3	840	12	US-10-282-122A-43614, Sequence 43614, A
6	48	59.3	840	14	US-10-127-032-108131, Sequence 108131, App
7	47	58.0	106	16	US-10-437-963-148131, Sequence 148131,
8	47	58.0	138	14	US-10-156-761-12462, Sequence 12462, A
9	47	58.0	272	14	US-10-156-761-12370, Sequence 12370, A
10	47	58.0	346	10	US-09-846-589A-23, Sequence 23, Appl
11	47	58.0	411	12	US-10-425-114-57956, Sequence 57956, A
12	46	56.8	26	9	US-09-888-721-2, Sequence 2, Appl
13	46	56.8	26	9	US-09-888-721-32, Sequence 32, Appl
14	46	56.8	55	16	US-10-240-430-8, Sequence 8, Appl
15	46	56.8	66	16	US-10-240-430-7, Sequence 7, Appl

16	46	56.8	130	14	US-10-262-209-2	Sequence 2, Appl
17	46	56.8	130	16	US-10-240-430-5	Sequence 5, Appl
18	46	56.8	218	14	US-10-223-567-4	Sequence 4, Appl
19	46	56.8	234	14	US-10-262-209-1	Sequence 1, Appl
20	46	56.8	234	16	US-10-240-430-2	Sequence 2, Appl
21	46	56.8	276	9	US-09-738-626-4122	Sequence 4122, Ap
22	46	56.8	1455	16	US-10-437-963-154235	Sequence 154235,
23	46	56.8	1609	16	US-10-437-963-154232	Sequence 154232,
24	45	55.6	92	14	US-10-193-002-223	Sequence 223, App
25	45	55.6	92	14	US-10-084-843-228	Sequence 228, App
26	45	55.6	105	14	US-10-080-170-339	Sequence 339, App
27	45	55.6	105	16	US-10-080-170-339	Sequence 339, App
28	45	55.6	160	14	US-10-193-002-230	Sequence 230, App
29	45	55.6	160	14	US-10-084-843-235	Sequence 235, App
30	45	55.6	213	13	US-10-004-717-21	Sequence 21, Appl
31	45	55.6	258	16	US-10-437-963-117975	Sequence 117975,
32	45	55.6	289	16	US-10-437-963-190954	Sequence 190954,
33	44	54.3	454	16	US-10-437-963-187134	Sequence 187134,
34	44	54.3	34	19	US-09-905-691-2	Sequence 2, Appl
35	44	54.3	87	16	US-10-437-963-145014	Sequence 145014,
36	44	54.3	110	16	US-10-437-963-125940	Sequence 125940,
37	44	54.3	139	9	US-09-771-383-12	Sequence 12, Appl
38	44	54.3	139	11	US-09-770-834-13	Sequence 13, Appl
39	44	54.3	139	16	US-10-717-138-13	Sequence 13, Appl
40	44	54.3	140	16	US-10-437-963-153634	Sequence 153634,
41	44	54.3	153	16	US-10-437-963-109300	Sequence 109300,
42	44	54.3	434	12	US-10-425-114-65935	Sequence 65935, A
43	44	54.3	1043	16	US-10-437-963-193027	Sequence 193027,
44	44	54.3	1276	16	US-10-437-963-159386	Sequence 159386,
45	43	53.1	61	12	US-10-424-599-228978	Sequence 228978,

ALIGNMENTS

RESULT 1

US-10-437-963-185672

; Sequence 185672, Application US/10437963

; Publication No. US20040123341

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; APPLICANT: Wu, Wei

; APPLICANT: Boukharov, Andrey A.

; APPLICANT: Barbazuk, Brad

; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53221)B

; CURRENT APPLICATION NUMBER: US/10/437,963

; CURRENT FILING DATE: 2003-05-14

; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 185672

; LENGTH: 88

; TYPE: PRT

; ORGANISM: Oryza sativa

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)..(88)

; OTHER INFORMATION: unsure at all Xaa locations

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT4530_82545C.1.pep

US-10-437-963-185672

Query Match 60.5%; Score 49; DB 16; Length 88;

Best Local Similarity 62.5%; Pred. No. 6.4;

Matches 10; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 RRKAARRAKARRAK 17

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DB 47 RRSRRAGGARRAR 62

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RESULT 2
US-10-425-114-70601
; Sequence 70601, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovacic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 70601
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3689-234-E7_FLI.pep
US-10-425-114-70601

Query Match          59.3%; Score 48; DB 12; Length 200;
Best Local Similarity 66.7%; Pred. No. 19;
Matches 10; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 3 RAKAARAKAARRAK 17
Db 147 RAKAARAKAARRAK 161

RESULT 3
US-09-771-161A-127
; Sequence 127, Application US/09771161A
; Patent No. US20020110811A1
; GENERAL INFORMATION:
; APPLICANT: LEVINE, et al.
; TITLE OF INVENTION: VARIANTS OF PROTEIN KINASES
; FILE REFERENCE: 802620-2005.1
; CURRENT APPLICATION NUMBER: US/09/771,161A
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 09/724,676
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 136776
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 135619
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 273
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 127
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-771-161A-127

Query Match          59.3%; Score 48; DB 9; Length 243;
Best Local Similarity 61.1%; Pred. No. 23;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRAKA 18
Db 11 ARAAEAARAAKAAKAAEA 28

RESULT 4
US-09-815-242-5198
; Sequence 5198, Application US/09815242
; Patent No. US20020061569A1

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; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.031A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5198
; LENGTH: 840
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-815-242-5198

Query Match          59.3%; Score 48; DB 9; Length 840;
Best Local Similarity 61.1%; Pred. No. 76;
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRAKA 18
Db 135 ARKAEAAARAKAAQAAAA 152

RESULT 5
US-10-282-122A-43614
; Sequence 43614, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335

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; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43614
; LENGTH: 840
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-282-122A-43614

Query Match 59.3%; Score 48; DB 12; Length 840;
Best Local Similarity 61.1%; Pred. No. 76;
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRAKA 18
|||:|||||:
Db 135 ARKAEERAKAQAQAAA 152

RESULT 6
US-10-127-032-108
; Sequence 108, Application US/10127032
; Publication No. US20030113742A1
; GENERAL INFORMATION:
; APPLICANT: Whiteley, Marvin
; APPLICANT: Banger, M. Gita
; APPLICANT: Lory, Stephen
; APPLICANT: Greenberg, Everett Peter
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
; TITLE OF INVENTION: BIOFILM FORMATION
; FILE REFERENCE: UIZ-070CP
; CURRENT APPLICATION NUMBER: US/10/127,032
; CURRENT FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/285,190
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: US 60/344,142
; PRIOR FILING DATE: 2001-10-24
; NUMBER OF SEQ ID NOS: 170
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 108
; LENGTH: 840
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-127-032-108

Query Match 59.3%; Score 48; DB 14; Length 840;
Best Local Similarity 61.1%; Pred. No. 76;
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRAKA 18
|||:|||||:
Db 135 ARKAEERAKAQAQAAA 152

RESULT 7
US-10-437-963-148131
; Sequence 148131, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 148131
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_48593C.1.pap
US-10-437-963-148131

Query Match 58.0%; Score 47; DB 16; Length 106;
Best Local Similarity 58.8%; Pred. No. 15;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 PRKAAARRAKAARRAKA 18
|||:|||||:
Db 30 RRTKASRSSSSRRRAA 46

RESULT 8
US-10-156-761-12462
; Sequence 12462, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, KASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12462
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12462

Query Match 58.0%; Score 47; DB 14; Length 138;
Best Local Similarity 73.3%; Pred. No. 19;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 AKAAARRAKAARRAKA 18
|||:|||||:
Db 10 SKAAKAAKAAARVAKA 24

RESULT 9
US-10-156-761-12370
; Sequence 12370, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN

```
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12370
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12370

Query Match      58.0%; Score 47; DB 14; Length 272;
Best Local Similarity 52.9%; Pred. No. 36;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 2 BRKAAARRAKAARRAKA 18
Db 106 KKAETKKAARRAA 122

RESULT 10
US-09-846-589A-23
; Sequence 23, Application US/09846589A
; Publication No. US20030166241A1
; GENERAL INFORMATION:
; APPLICANT: Pamodu, Lavo O.
; APPLICANT: Orozco, Buddy
; APPLICANT: Rafalski, Antoni
; TITLE OF INVENTION: Plant Aminoacyl-tRNA Synthetase
; FILE REFERENCE: BB-1191
; CURRENT APPLICATION NUMBER: US/09/846,589A
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/092,866
; PRIOR FILING DATE: July 15, 1998
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-846-589A-23

Query Match      59.0%; Score 47; DB 10; Length 346;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 5 KAARRAKAARRAKA 18
Db 12 KGAKKAKAKAKA 25

RESULT 11
US-10-425-114-57956
; Sequence 57956, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B

; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 57956
; LENGTH: 411
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLM017297F06_FLI.pep
US-10-425-114-57956

Query Match      58.0%; Score 47; DB 12; Length 411;
Best Local Similarity 61.1%; Pred. No. 53;
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRAKA 18
Db 116 ARRALAPPQVRAARRAQA 133

RESULT 12
US-09-888-721-2
; Sequence 2, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 2
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-2

Query Match      56.8%; Score 46; DB 9; Length 26;
Best Local Similarity 50.0%; Pred. No. 5,2;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRAKA 18
Db 1 AKKAKPKKAKAARRAKA 18

RESULT 13
US-09-888-721-32
; Sequence 32, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
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; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-32

Query Match
Best Local Similarity 56.8%; Score 46; DB 9; Length 26;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARRAKAARRAKAARRAKA 18
Db 1 AKKAKSPKKAAKPKKA 18

RESULT 14
US-10-240-430-8
; Sequence 8, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-8

Query Match
Best Local Similarity 56.8%; Score 46; DB 16; Length 55;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARRAKAARRAKAARRAKA 18
Db 12 AKKAKSPKKAAKPKKA 29

RESULT 15
US-10-240-430-7
; Sequence 7, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 66
; TYPE: PRT

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OM protein - protein search, using sw model

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(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-55

Perfect score: 108

Sequence: 1 ARRAARARRRAARRRAARA 24

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Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	ID	Description
1	70	64.8	38	US-08-436-703B-17
2	70	64.8	39	Sequence 17, Appli
3	67	62.0	163	Sequence 5, Appli
4	65	60.2	4	US-09-252-991A-25541
5	65	60.2	308	Sequence 25541, A
6	63	58.3	1374	Sequence 29958, A
7	63	58.3	4	US-09-252-991A-24636
8	62	57.4	435	Sequence 24636, A
9	61	56.5	148	Sequence 23880, A
10	60.5	56.0	262	Sequence 23880, A
11	60	55.6	231	Sequence 24702, A
12	59	54.6	21	Sequence 23776, A
13	59	54.6	21	Sequence 23776, A
14	59	54.6	464	Sequence 24776, A
15	58.5	54.2	407	Sequence 32190, A
16	58	53.7	23	Sequence 32190, A
17	58	53.7	31	Sequence 32190, A
18	58	53.7	31	Sequence 32190, A
19	58	53.7	31	Sequence 32190, A
20	58	53.7	472	Sequence 32190, A
21	57.5	53.2	155	Sequence 17011, A
22	57.5	53.2	156	Sequence 17230, A
23	57.5	53.2	236	Sequence 16834, A
24	57.5	53.2	326	Sequence 31916, A
25	57.5	53.2	594	Sequence 25474, A
26	57	52.8	26	Sequence 20849, A
27	57	52.8	28	Sequence 15, Appli
28	57	52.8	28	Sequence 8, Appli

28 57 52.8 28 2 US-08-618-917-8 Sequence 8, Appli

29 57 52.8 184 4 US-09-252-991A-27801 Sequence 27801, A

30 56.5 52.3 142 4 US-09-252-991A-32258 Sequence 32258, A

31 56.5 52.3 783 4 US-09-252-991A-18035 Sequence 18035, A

32 56 51.9 135 4 US-09-252-991A-24160 Sequence 24160, A

33 56 51.9 206 4 US-09-252-991A-16775 Sequence 16775, A

34 56 51.9 282 4 US-09-252-991A-29124 Sequence 29124, A

35 56 51.9 437 4 US-09-252-991A-24390 Sequence 24390, A

36 56 51.9 531 4 US-09-252-991A-26049 Sequence 26049, A

37 56 51.9 538 4 US-09-252-991A-22200 Sequence 22200, A

38 56 51.9 573 4 US-09-252-991A-22382 Sequence 22382, A

39 56 51.9 601 4 US-09-252-991A-27821 Sequence 27821, A

40 56 51.9 816 4 US-09-252-991A-23292 Sequence 23292, A

41 56 51.9 830 4 US-09-252-991A-20619 Sequence 20619, A

42 55.5 51.4 160 4 US-09-252-991A-17249 Sequence 17249, A

43 55.5 51.4 220 4 US-09-252-991A-25817 Sequence 25817, A

44 55.5 51.4 664 4 US-09-252-991A-25836 Sequence 25836, A

45 55 50.9 133 4 US-09-252-991A-28869 Sequence 28869, A

ALIGNMENTS

RESULT 1

US-08-436-703B-17

Sequence 17, Application US/08436703B

Patent No. 5913761

GENERAL INFORMATION:

APPLICANT: Wakefield, Thomas W.

APPLICANT: Andrews, Philip C.

APPLICANT: Stanley, James C.

TITLE OF INVENTION: NOVEL PEPTIDES FOR

TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR

TITLE OF INVENTION: WEIGHT HEPARIN

TITLE OF INVENTION: ANTICOAGULATION REVERSAL

NUMBER OF SEQUENCES: 18

CORRESPONDENCE ADDRESS:

ADDRESSEE: Benita J. Rohm, Esq.

STREET: 6601 Woodward Avenue

STREET: Suite 1525

CITY: Detroit

STATE: Michigan

COUNTRY: United States of America

ZIP: 48226

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"

COMPUTER: IBM PC compatible

OPERATING SYSTEM: MS-DOS

SOFTWARE: WordPerfect 6;

SOFTWARE: ASCII (DOS)Text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/436,703B

FILING DATE: 08-MAY-1995

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: N/A

FILING DATE: N/A

ATTORNEY/AGENT INFORMATION:

NAME: Rohm, Benita J.

REGISTRATION NUMBER: 28, 664

REFERENCE/DOCKET NUMBER: 7WK-060548-00233

TELECOMMUNICATION INFORMATION:

TELEPHONE: 313-965-1976

TELEFAX: 313-965-1951

INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

LENGTH: 38 amino acids

TYPE: amino acid

STRANDEDNESS: N/A

TOPOLOGY: N/A

MOLECULE TYPE: peptide

ORIGINAL SOURCE: N/A

ORGANISM: N/A


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; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24636
; LENGTH: 1374
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24636

Query Match      60.2%; Score 65; DB 4; Length 1374;
Best Local Similarity 66.7%; Pred. No. 0.81;
Matches 16; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 RRAAARARRRRAAARRAARA 24
Db 106 AARAAARAGRAARRLRGGA 129

RESULT 6
US-09-252-991A-23880
; Sequence 23880, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 23880
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23880

Query Match      58.3%; Score 63; DB 4; Length 133;
Best Local Similarity 53.1%; Pred. No. 0.16;
Matches 17; Conservative 2; Mismatches 3; Indels 10; Gaps 1;

Qy 2 RRAAARARRRRAA-----AARRRAAR 23
Db 49 RRAARRSRRAARPVAHPAGASARRASR 80

RESULT 7
US-09-252-991A-24702
; Sequence 24702, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24702
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; LENGTH: 435
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24702

Query Match      58.3%; Score 63; DB 4; Length 435;
Best Local Similarity 68.2%; Pred. No. 0.49;
Matches 15; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 2 RRAAARARRRRAAARRRRAAR 23
Db 44 RRAARLPARRAARRAARRRRR 65

RESULT 8
US-09-252-991A-23276
; Sequence 23276, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 23276
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23276

Query Match      57.4%; Score 62; DB 4; Length 148;
Best Local Similarity 60.9%; Pred. No. 0.23;
Matches 14; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 2 RRAAARARRRRAAARRRRAARA 24
Db 12 RRAARRPARRRRRTARRTAPAA 34

RESULT 9
US-09-252-991A-24776
; Sequence 24776, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24776
; LENGTH: 714
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24776

Query Match      56.5%; Score 61; DB 4; Length 714;
Best Local Similarity 69.6%; Pred. No. 1.4;
Matches 16; Conservative 1; Mismatches 4; Indels 2; Gaps 1;

Qy 3 RRAAARARRRRAAARRRRAAR 23
Db 12 RRAARRPARRRRRTARRTAPAA 34
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RESULT 14
US-09-252-991A-33108
; Sequence 33108, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 33108
; LENGTH: 464
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-33108

Query Match 54.6%; Score 59; DB 4; Length 464;
Best Local Similarity 62.5%; Pred. No. 1.6;
Matches 15; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
QY 1 AAAAAAARRRAARRRAARA 24
DB 25 AAAAAAARRRAARRRAARA 48

RESULT 15
US-09-252-991A-20436
; Sequence 20436, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20436
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20436

Query Match 54.2%; Score 58.5; DB 4; Length 407;
Best Local Similarity 69.2%; Pred. No. 1.6;
Matches 18; Conservative 1; Mismatches 4; Indels 3; Gaps 2;
QY 2 RRAAFAA--RRAAFAAR-RAAARA 24
DB 296 RRAAFAA--RRAAFAAR-RAAARA 321

Search completed: August 17, 2004, 16:14:42
Job time : 12.9406 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-55

Perfect score: 108

Sequence: 1 ARRRRAARRRAARRRAARRA 24

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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- 2: /cgn2_6/prodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep.*
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- 10: /cgn2_6/prodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/prodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/prodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/prodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	66	61.1	827	16	US-10-437-963-152005
2	64	59.3	926	16	US-10-437-963-193381
3	63	58.3	206	14	US-10-226-007-33
4	62	57.4	84	12	US-10-424-599-269191
5	62	57.4	1469	16	US-10-437-963-194621
6	61	56.5	143	16	US-10-437-963-102676
7	61	56.5	159	16	US-10-437-963-126398
8	61	56.5	423	16	US-10-437-963-185856
9	61	56.5	850	12	US-10-424-599-242653
10	60	55.6	210	16	US-10-437-963-148098
11	60	55.6	258	12	US-10-425-114-47317
12	60	55.6	276	12	US-10-425-114-56515
13	60	55.6	261	12	US-10-425-114-69952
14	60	55.6	636	12	US-10-425-114-37076
15	59.5	55.1	171	16	US-10-437-963-174159

16	59	54.6	144	16	US-10-437-963-131770	Sequence 131770, A
17	59	54.6	163	12	US-10-425-114-54452	Sequence 54452, A
18	59	54.6	168	16	US-10-437-963-151165	Sequence 151165, A
19	59	54.6	1043	16	US-10-437-963-184911	Sequence 184911, A
20	59	54.6	1056	16	US-10-408-765A-2448	Sequence 2448, Ap
21	59	54.6	19662	15	US-10-084-846A-6	Sequence 6, Appl1
22	58	53.7	122	16	US-10-437-963-142688	Sequence 142688, A
23	58	53.7	936	16	US-10-437-963-182465	Sequence 182465, A
24	57.5	53.2	89	16	US-10-437-963-157858	Sequence 157858, A
25	57.5	53.2	135	16	US-10-437-963-125678	Sequence 125678, A
26	57	52.8	209	16	US-10-437-963-175682	Sequence 175682, A
27	57	52.8	210	16	US-10-437-963-147829	Sequence 147829, A
28	57	52.8	236	12	US-10-425-114-71059	Sequence 71059, A
29	57	52.8	272	16	US-10-437-963-170212	Sequence 170212, A
30	57	52.8	434	16	US-10-437-963-168960	Sequence 168960, A
31	57	52.8	503	12	US-10-282-122A-50517	Sequence 50517, A
32	57	52.8	513	12	US-10-282-122A-50002	Sequence 50002, A
33	57	52.8	534	16	US-10-437-963-131805	Sequence 131805, A
34	57	52.8	1564	16	US-10-437-963-153070	Sequence 153070, A
35	56.5	52.3	166	16	US-10-437-963-147783	Sequence 147783, A
36	56.5	52.3	756	16	US-10-437-963-196108	Sequence 196108, A
37	56	51.9	30	14	US-10-192-832-70	Sequence 70, Appl
38	56	51.9	149	16	US-10-437-963-140213	Sequence 140213, A
39	56	51.9	151	16	US-10-437-963-171046	Sequence 171046, A
40	56	51.9	155	16	US-10-437-963-149694	Sequence 149694, A
41	56	51.9	197	16	US-10-437-963-188025	Sequence 188025, A
42	56	51.9	207	16	US-10-437-963-118720	Sequence 118720, A
43	56	51.9	231	15	US-10-104-047-3565	Sequence 3565, Ap
44	56	51.9	235	14	US-10-153-668-59	Sequence 59, Appl
45	56	51.9	313	14	US-10-156-761-7720	Sequence 7720, Ap

ALIGNMENTS

RESULT 1

US-10-437-963-152005
; Sequence 152005, Application US/10437963
; Publication No. US2004012343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 152005
; LENGTH: 827
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_52099C.1.pep
US-10-437-963-152005

Query Match 61.1%; Score 66; DB 16; Length 827;
Best Local Similarity 72.7%; Pred.No. 4.2; Mismatches 1; Indels 0; Gaps 0;
Matches 16; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

OY 1 ARRRRAARRRAARRRAARRA 22

Db 464 ARRRRAARRRAARRRAARRA 485

RESULT 2

US-10-437-963-193381

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; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 269191
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(84)
; OTHER INFORMATION: unsure at all xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_850C.1.pep
US-10-424-599-269191

Query Match 57.4%; Score 62; DB 12; Length 84;
Best Local Similarity 62.5%; Pred. No. 1.7;
Matches 15; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARRAAARARRRAARRRAARA 24
DB 22 ARRAAARAAVEKANTEARKAERA 45

RESULT 5
US-10-437-963-194621
; Sequence 194621, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 194621
; LENGTH: 1469
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_90649C.1.pep
US-10-437-963-194621

Query Match 57.4%; Score 62; DB 16; Length 1469;
Best Local Similarity 65.2%; Pred. No. 20;
Matches 15; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2 RRAAARARRRAARRRAARA 24
DB 1429 RRRARDVRAAERAAERAA 1451

RESULT 6
US-10-437-963-102676
; Sequence 102676, Application US/10437963
; Publication No. US20040123343A1

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US-10-437-963-185856
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 102676
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Oryza sativa
; NAME/KEY: unsure
; LOCATION: (1)..(143)
; FEATURE:
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_100176C.1.pep
US-10-437-963-102676

Query Match          56.5%; Score 61; DB 16; Length 143;
Best Local Similarity 68.2%; Pred. No. 3.4; 7; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 2 RRRRAAARRRAARRRAARRAAR 23
Db 22 RRRRAAARRRAARRRAARRAAR 43

RESULT 7
US-10-437-963-126398
; Sequence 126398, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 126398
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Oryza sativa
; NAME/KEY: unsure
; LOCATION: (1)..(850)
; FEATURE:
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_28949C.1.pep
US-10-437-963-126398

Query Match          56.5%; Score 61; DB 16; Length 159;
Best Local Similarity 68.0%; Pred. No. 3.8;
Matches 17; Conservative 0; Mismatches 6; Indels 2; Gaps 1;

Qy 2 RRRRAA--RAARRRAARRRAARRA 24
Db 86 RRRRAARRRRRAARRRAARRRDGAA 110

RESULT 8
US-10-437-963-185856
; Sequence 185856, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 185856
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Oryza sativa
; NAME/KEY: unsure
; LOCATION: (1)..(423)
; FEATURE:
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_82710C.1.pep
US-10-437-963-185856

Query Match          56.5%; Score 61; DB 16; Length 423;
Best Local Similarity 63.8%; Pred. No. 8.7;
Matches 14; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 3 RRAAARAARRRAARRRAARRA 24
Db 378 RRGSSRAARAGARARRRARA 399

RESULT 9
US-10-424-599-242653
; Sequence 242653, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 242653
; LENGTH: 850
; TYPE: PRT
; ORGANISM: Glycine max
; NAME/KEY: unsure
; LOCATION: (1)..(850)
; FEATURE:
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT3847_61145C.1.pep
US-10-424-599-242653

Query Match          56.5%; Score 61; DB 12; Length 850;
Best Local Similarity 62.5%; Pred. No. 16;
Matches 15; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

Qy 1 ARRAARAARRRAARRRAARRA 24
Db 579 AVERATREARRAARRAARRA 602
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RESULT 10
US-10-437-963-148098
; Sequence 148098, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 148098
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(210)
; OTHER INFORMATION: unsure at all xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MFT4530_48563C.1.pap
US-10-437-963-148098

Query Match 55.6%; Score 60; DB 16; Length 210;
Best Local Similarity 54.5%; Pred. No. 6.2;
Matches 12; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 3 RRAAARRRRAARRRAARA 24
DB 62 RYAVRGRRRCVRSARRAARA 83

RESULT 11
US-10-425-114-47317
; Sequence 47317, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 47317
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700099647_FLI.pap
US-10-425-114-47317

Query Match 55.6%; Score 60; DB 12; Length 258;
Best Local Similarity 59.1%; Pred. No. 7.4;
Matches 13; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 RRAAARRRRAARRRAAR 23
DB 11 ARRAAARRRRAARRRAAR 34

DB 117 RRRSRHSRRRAASSARTTTR 138
RESULT 12
US-10-425-114-56515
; Sequence 56515, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 56515
; LENGTH: 276
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB73257G03_FLI.pap
US-10-425-114-56515

Query Match 55.6%; Score 60; DB 12; Length 276;
Best Local Similarity 62.5%; Pred. No. 7.9;
Matches 15; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARRAAARRRRAARRRAARA 24
DB 28 ARRAAARRRRAARRRAARA 51

RESULT 13
US-10-425-114-69952
; Sequence 69952, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 69952
; LENGTH: 281
; TYPE: PRT
; ORGANISM: Zea mays subsp. mexicana
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMROTEOSINTE070B10_FLI.pap
US-10-425-114-69952

Query Match 55.6%; Score 60; DB 12; Length 281;
Best Local Similarity 62.5%; Pred. No. 8;
Matches 15; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARRAAARRRRAARRRAARA 24
DB 11 ARRAAARRRRAARRRAARA 34

RESULT 14
US-10-425-114-37076

Job time : 38.8416 secs

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; Sequence 37076, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 37076
; LENGTH: 636
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700073158_FLI.pep
US-10-425-114-37076
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Query Match 55.6%; Score 60; DB 12; Length 636;
Best Local Similarity 62.5%; Pred. No. 16;
Matches 15; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARRRARRARRRRARRRARA 24
DB 366 AKRAARRAVERATEARERQAAA 389
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RESULT 15
US-10-437-963-174159
; Sequence 174159, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 174159
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(171)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_72127C.1.pep
US-10-437-963-174159
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Query Match 55.1%; Score 59.5; DB 16; Length 171;
Best Local Similarity 57.1%; Pred. No. 5.9;
Matches 16; Conservative 0; Mismatches 7; Indels 5; Gaps 1;

QY 2 RRRARRRRARRRARRA 24
DB 10 RRRRRRRRRRRARGAPSSRRRCXRA 37
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Search completed: August 17, 2004, 17:19:25

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 11.9406 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-56
Perfect score: 108
Sequence: 1 AKAAKKRAAKRAAKRAAKRA 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*

- 1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
- 2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
- 3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*
- 4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
- 5: /cgn2_6/ptodata/2/iaa/PCTUS.COMB.pep.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	70	64.8	407	4	US-09-252-991A-29581
2	66	61.1	214	3	US-09-041-889-27
3	66	61.1	214	4	US-09-417-264-27
4	64	59.3	29	1	US-08-152-488-10
5	64	59.3	29	1	US-08-152-488-11
6	64	59.3	29	1	US-08-303-025-10
7	64	59.3	29	1	US-08-303-025-11
8	64	59.3	29	1	US-08-303-025-13
9	64	59.3	29	1	US-08-677-304-10
10	64	59.3	29	1	US-08-677-304-11
11	64	59.3	29	2	US-08-436-703B-3
12	64	59.3	29	2	US-08-436-703B-15
13	64	59.3	32	1	US-08-152-488-13
14	64	59.3	32	1	US-08-303-025-15
15	64	59.3	32	1	US-08-677-304-13
16	64	59.3	32	2	US-08-436-703B-2
17	64	59.3	33	1	US-08-303-025-16
18	64	59.3	33	2	US-08-436-703B-4
19	61	56.5	28	1	US-08-303-025-12
20	61	56.5	28	2	US-08-436-703B-1
21	61	56.5	60	1	US-08-346-849-16
22	61	56.5	60	2	US-08-293-284A-16
23	61	56.5	60	4	US-08-898-300-16
24	60	55.6	109	4	US-09-405-743A-7
25	59.5	55.1	316	4	US-09-252-991A-32957
26	58	53.7	35	4	US-09-405-743A-1
27	58	53.7	35	3	US-09-041-889-41

28	58	53.7	55	4	US-09-417-264-41	Sequence 41, Appl
29	58	53.7	158	3	US-09-041-889-40	Sequence 40, Appl
30	58	53.7	158	4	US-09-417-264-40	Sequence 40, Appl
31	58	53.7	226	3	US-09-041-889-32	Sequence 32, Appl
32	58	53.7	226	4	US-09-417-264-32	Sequence 32, Appl
33	57.5	53.2	56	4	US-09-405-743A-3	Sequence 3, Appl
34	57.5	53.2	77	4	US-09-405-743A-5	Sequence 5, Appl
35	57.5	53.2	86	4	US-08-152-488-12	Sequence 12, Appl
36	57	52.8	29	1	US-08-303-025-14	Sequence 14, Appl
37	57	52.8	29	1	US-08-677-304-12	Sequence 12, Appl
38	57	52.8	29	2	US-08-436-703B-16	Sequence 16, Appl
39	57	52.8	222	3	US-09-041-889-3	Sequence 3, Appl
40	57	52.8	222	3	US-08-837-058-3	Sequence 3, Appl
41	57	52.8	222	4	US-09-417-264-3	Sequence 3, Appl
42	57	52.8	222	4	US-08-231-730A-29	Sequence 29, Appl
43	56.5	52.3	37	1	US-08-427-001C-29	Sequence 29, Appl
44	56.5	52.3	37	1	US-08-457-798-29	Sequence 29, Appl
45	56.5	52.3	37	1		

ALIGNMENTS

RESULT 1
US-09-252-991A-29581
; Sequence 29581, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29581
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29581

Query Match 64.8%; Score 70; DB 4; Length 407;
Best Local Similarity 62.5%; Pred. No. 0.098;
Matches 15; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKAAKKRAAKRAAKRAAKRA 24

Db 228 AEDAKKAAEDAKKAAEEAKKA 251

RESULT 2

US-09-041-889-27

; Sequence 27, Application US/09041889

; Patent No. 6033864;

; GENERAL INFORMATION:

; APPLICANT: Braun, Jonathan

; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of

; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using

; NUMBER OF SEQUENCES: 41

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Campbell & Flores LLP

; STREET: 4370 La Jolla Village Drive, Suite 700

; CITY: San Diego

; STATE: California

; COUNTRY: USA

; ZIP: 92122

; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041.889
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/937,058
FILING DATE: 11-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-889-27

Query Match 61.1%; Score 66; DB 3; Length 214;
Best Local Similarity 66.7%; Pred. No. 0.16;
Matches 16; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AKAAKRAAKAAKRAAKRAAKRA 24
DB 108 ASAAKKVAKPAKATKAARKAA 131

RESULT 3

US-09-417-264-27
Sequence 27, Application US/09417264
Patent No. 6537768
GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
TITLE OF INVENTION: Microsial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,889
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-417-264-27
Query Match 61.1%; Score 66; DB 4; Length 214;
Best Local Similarity 66.7%; Pred. No. 0.16;
Matches 16; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AKAAKRAAKAAKRAAKRAAKRA 24
DB 108 ASAAKKVAKPAKATKAARKAA 131

RESULT 4

US-08-152-488-10
Sequence 10, Application US/08152488
Patent No. 5534619
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-152-488-10

Query Match 59.3%; Score 64; DB 1; Length 29;
Best Local Similarity 65.4%; Pred. No. 0.043;

Matches 17; Conservative 2; Mismatches 5; Indels 2; Gaps 1;

Qy 1 AKAAKKRAAKA--KRAAKAKKRA 24
|||:|||||:|||||
Db 2 AKKAAKKAKKAKKAKKAKKAA 27

RESULT 5

US-08-152-488-11
; Sequence 11, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford

; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993

; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069

; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.

; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344

; TELEFAX: 908-276-5543

; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids

; TYPE: amino acid
; STRANDEDNESS: N/A

; TOPOLOGY: N/A
; MOLECULE TYPE: peptide

; ORIGINAL SOURCE:
; ORGANISM: N/A

; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A

; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993

US-08-152-488-11

Query Match 59.3%; Score 64; DB 1; Length 29;
Best Local Similarity 65.4%; Pred. No. 0.043;
Matches 17; Conservative 2; Mismatches 5; Indels 2; Gaps 1;

Qy 1 AKAAKKRAAKA--KRAAKAKKRA 24
|||:|||||:|||||
Db 2 AKKAAKKAKKAKKAKKAKKAA 27

RESULT 6

US-08-303-025-10

; Sequence 10, Application US/08303025
; Patent No. 5614494

; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500

; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America

; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb

; OPERATING SYSTEM: MS-DOS v.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025

; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829

; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993

; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454

; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids

; TYPE: amino acid
; STRANDEDNESS: N/A

; TOPOLOGY: N/A
; MOLECULE TYPE: peptide

; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A

; TITLE: N/A
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993

US-08-303-025-10

Query Match 59.3%; Score 64; DB 1; Length 29;
Best Local Similarity 65.4%; Pred. No. 0.043;
Matches 17; Conservative 2; Mismatches 5; Indels 2; Gaps 1;

Qy 1 AKAAKKRAAKA--KRAAKAKKRA 24
|||:|||||:|||||
Db 2 AKKAAKKAKKAKKAKKAKKAA 27

RESULT 7

US-08-303-025-11
; Sequence 11, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.

; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL

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; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS V.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-303-025-11

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Query Match 59.3%; Score 64; DB 1; Length 29;
Best Local Similarity 65.4%; Pred. NO. 0.043;
Matches 17; Conservative 2; Mismatches 5; Indels 2; Gaps 1;

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QY 1 AKAAKRAAKAAK--KRAAKAAKKA 24
Db 2 AKKAACKAKAAKAAKAAKAAKAA 27

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RESULT 8

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US-08-303-025-13
; Sequence 13, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:

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; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS V.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-303-025-13

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Query Match 59.3%; Score 64; DB 1; Length 29;
Best Local Similarity 65.4%; Pred. NO. 0.043;
Matches 17; Conservative 2; Mismatches 5; Indels 2; Gaps 1;

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QY 1 AKAAKRAAKAAK--KRAAKAAKKA 24
Db 2 AKKAACKAKAAKAAKAAKAAKAA 27

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RESULT 9

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US-08-677-304-10
; Sequence 10, Application US/08677304
; Patent No. 5721212
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/677,304
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:

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Db 2 AKAAKKAACAAKAAKAAKAAKAA 27

RESULT 14

US-08-303-025-15
; Sequence 15, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS V.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303.025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-303-025-15

Query Match 59.3%; Score 64; DB 1; Length 32;
Best Local Similarity 65.4%; Pred. No. 0.048; 5; Indels
Matches 17; Conservative 2; Mismatches 5; Gaps 1;

Qy 1 AKAAKKAACAAKAAKAAKAAKAA 24

Db 2 AKAAKKAACAAKAAKAAKAAKAA 27

RESULT 15

US-08-677-304-13
; Sequence 13, Application US/08677304
; Patent No. 5721212
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.

; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/677,304
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. 5721212 Relevant
; TOPOLOGY: No. 5721212 Relevant
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-677-304-13

Query Match 59.3%; Score 64; DB 1; Length 32;
Best Local Similarity 65.4%; Pred. No. 0.048; 5; Indels
Matches 17; Conservative 2; Mismatches 5; Gaps 1;

Qy 1 AKAAKKAACAAKAAKAAKAAKAA 24

Db 2 AKAAKKAACAAKAAKAAKAAKAA 27

Search completed: August 17, 2004, 16:14:42
Job time : 11.9406 secs

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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-56
Perfect score: 108
Sequence: 1 AKAAKRAAKAAKRAAKRAAKRA 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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2: /cgn2_6/ptodata/1/pubaa/FCI_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
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11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	71	65.7	372	12 US-10-282-122A-68109	Sequence 68109, A
2	70	64.8	347	12 US-10-282-122A-66237	Sequence 66237, A
3	70	64.8	347	14 US-10-127-032-120	Sequence 120, App
4	70	64.8	526	12 US-10-282-122A-53742	Sequence 53742, A
5	68	63.0	336	12 US-10-282-122A-69962	Sequence 69962, A
6	68	63.0	428	12 US-10-282-122A-55748	Sequence 55748, A
7	67	62.0	21	12 US-10-169-613-13	Sequence 13, Appl
8	66	61.1	214	12 US-10-282-122A-62547	Sequence 62547, A
9	66	61.1	214	12 US-10-282-122A-64817	Sequence 64817, A
10	66	61.1	214	14 US-10-229-567-27	Sequence 27, Appl
11	62	57.4	104	12 US-10-393-449-36	Sequence 36, Appl
12	62	57.4	104	12 US-10-393-449-86	Sequence 86, Appl
13	62	57.4	104	12 US-10-177-725-36	Sequence 36, Appl
14	62	57.4	104	14 US-10-177-725-86	Sequence 86, Appl
15	61	56.5	27	10 US-09-988-165B-7	Sequence 7, Appl

16	61	56.5	60	16	US-10-390-472-16	Sequence 16, Appl
17	61	56.5	777	14	US-10-128-714-8221	Sequence 8221, Ap
18	60.5	56.0	309	10	US-09-820-843A-24	Sequence 24, Appl
19	60	55.6	61	12	US-10-424-599-185724	Sequence 185724,
20	60	55.6	67	12	US-10-393-449-54	Sequence 54, Appl
21	60	55.6	67	12	US-10-393-449-104	Sequence 104, Appl
22	60	55.6	67	14	US-10-177-725-54	Sequence 54, Appl
23	60	55.6	67	14	US-10-177-725-104	Sequence 104, Appl
24	60	55.6	75	12	US-10-393-449-53	Sequence 53, Appl
25	60	55.6	75	12	US-10-393-449-103	Sequence 103, Appl
26	60	55.6	75	14	US-10-177-725-53	Sequence 53, Appl
27	60	55.6	75	14	US-10-177-725-103	Sequence 103, Appl
28	60	55.6	83	12	US-10-393-449-52	Sequence 52, Appl
29	60	55.6	83	12	US-10-393-449-102	Sequence 102, Appl
30	60	55.6	83	14	US-10-177-725-52	Sequence 52, Appl
31	60	55.6	83	14	US-10-177-725-102	Sequence 102, Appl
32	60	55.6	91	12	US-10-393-449-51	Sequence 51, Appl
33	60	55.6	91	12	US-10-393-449-101	Sequence 101, Appl
34	60	55.6	91	14	US-10-177-725-51	Sequence 51, Appl
35	60	55.6	91	14	US-10-177-725-101	Sequence 101, Appl
36	60	55.6	104	12	US-10-393-449-47	Sequence 47, Appl
37	60	55.6	104	12	US-10-393-449-97	Sequence 97, Appl
38	60	55.6	104	14	US-10-177-725-47	Sequence 47, Appl
39	60	55.6	104	14	US-10-177-725-97	Sequence 97, Appl
40	60	55.6	105	12	US-10-393-449-43	Sequence 43, Appl
41	60	55.6	105	12	US-10-393-449-93	Sequence 93, Appl
42	60	55.6	105	14	US-10-177-725-43	Sequence 43, Appl
43	60	55.6	105	14	US-10-177-725-93	Sequence 93, Appl
44	60	55.6	106	12	US-10-393-449-44	Sequence 44, Appl
45	60	55.6	106	12	US-10-393-449-45	Sequence 45, Appl

ALIGNMENTS

RESULT 1

US-10-282-122A-68109
; Sequence 68109, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Onisen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636

; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 68109
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Pseudomonas putida
US-10-282-122A-68109

Query Match 65.7%; Score 71; DB 12; Length 372;
Best Local Similarity 62.5%; Pred. No. 0.29;
Matches 15; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
QY 1 AKAACKRAAKAAKRAAKAAKRA 24
Db 181 ABEAKKAAEDAKKAAAEAKKKA 204

RESULT 2
US-10-282-122A-66237
; Sequence 66237, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 66237
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-282-122A-66237

Query Match 64.8%; Score 70; DB 12; Length 347;
Best Local Similarity 62.5%; Pred. No. 0.36;
Matches 15; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
QY 1 AKAACKRAAKAAKRAAKAAKRA 24
Db 168 ABEAKKAAEDAKKAAAEAKKKA 191

Matches 15; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
QY 1 AKAACKRAAKAAKRAAKAAKRA 24
Db 168 ABEAKKAAEDAKKAAAEAKKKA 191
RESULT 3
US-10-127-032-120
; Sequence 120, Application US/10127032
; Publication No. US20030113742A1
; GENERAL INFORMATION:
; APPLICANT: Whiteley, Marvin
; APPLICANT: Bangera, M. Gita
; APPLICANT: Lory, Stephen
; APPLICANT: Greenberg, Everett Peter
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
; TITLE OF INVENTION: BIOFILM FORMATION
; FILE REFERENCE: UIZ-070CP
; CURRENT APPLICATION NUMBER: US/10/127,032
; CURRENT FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/285,190
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: US 60/344,142
; PRIOR FILING DATE: 2001-10-24
; NUMBER OF SEQ ID NOS: 170
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-127-032-120

Query Match 64.8%; Score 70; DB 14; Length 347;
Best Local Similarity 62.5%; Pred. No. 0.36;
Matches 15; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
QY 1 AKAACKRAAKAAKRAAKAAKRA 24
Db 168 ABEAKKAAEDAKKAAAEAKKKA 191

RESULT 4
US-10-282-122A-53742
; Sequence 53742, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09


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; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53742
; LENGTH: 526
; TYPE: PRT
; ORGANISM: Corynebacterium diptheriae
US-10-282-122A-53742

Query Match          64.8%; Score 70; DB 12; Length 526;
Best Local Similarity 73.9%; Pred. No. 0.54;
Matches 17; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy      2 KAAXKRAAKAAKRAAKAAKRA 24
      ||||| ||||| ||||| |||||
Db      90 KAAXKTAKTAKTAKTAKTAKTA 112

RESULT 5
US-10-282-122A-69962
; Sequence 69962, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 69962
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; LENGTH: 336
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match          63.0%; Score 68; DB 12; Length 336;
Best Local Similarity 62.5%; Pred. No. 0.6;
Matches 15; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

Qy      1 AKAAKRAAKAAKRAAKAAKRA 24
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Db      163 AEAQKAQADEAKKAAEDAKKA 186

RESULT 6
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match          63.0%; Score 68; DB 12; Length 428;
Best Local Similarity 66.7%; Pred. No. 0.77;
Matches 16; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy      1 AKAAKRAAKAAKRAAKAAKRA 24
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Db      212 AEAQKAQADEAKKAAEDAKKA 235
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US-10-282-122A-64817

Query Match 61.1%; Score 66; DB 12; Length 214;
Best Local Similarity 66.7%; Pred. No. 0.68;
Matches 16; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AKAAKKRAAKAAXKRAAKKRA 24
DB 108 ASAAXKVAKKAPAKKATKAAXAA 131

RESULT 10

US-10-229-567-27
Sequence 27, Application US/10229567
Publication No. US20030092080A1

GENERAL INFORMATION:

APPLICANT: Braun, Jonathan

Cohavy, Offer

TITLE OF INVENTION: Diagnosis, Prevention and Treatment of

Ulcerative Colitis, and Clinical Subtypes Thereof, Using

Microbial UC PANCA antigens

NUMBER OF SEQUENCES: 41

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell & Flores LLP

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: USA

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/229,567

FILING DATE: 27-Aug-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/417,264

FILING DATE: <Unknown>

APPLICATION NUMBER: US 09/041,889

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-PM 3006

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:

LENGTH: 214 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 27:

US-10-229-567-27

Query Match 61.1%; Score 66; DB 14; Length 214;
Best Local Similarity 66.7%; Pred. No. 0.68;
Matches 16; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AKAAKKRAAKAAXKRAAKKRA 24
DB 108 ASAAXKVAKKAPAKKATKAAXAA 131

RESULT 11

US-10-393-449-36

Sequence 36, Application US/10393449
Publication No. US20030224412A1

GENERAL INFORMATION:

APPLICANT: Anderson, David

APPLICANT: Bogenberger, Jakob M.

APPLICANT: Peele, Beau R.

TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S

FILE REFERENCE: RIGL-007CIP3

CURRENT APPLICATION NUMBER: US/10/393,449

CURRENT FILING DATE: 2003-03-18

PRIOR APPLICATION NUMBER: US 10/177,725

PRIOR FILING DATE: 2002-06-20

PRIOR APPLICATION NUMBER: US 09/415,765

PRIOR FILING DATE: 1999-10-08

PRIOR APPLICATION NUMBER: US 09/169,015

PRIOR FILING DATE: 1998-10-08

NUMBER OF SEQ ID NOS: 173

SOFTWARE: PatentIn version 3.1

SEQ ID NO 36

LENGTH: 104

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: synthetic

US-10-393-449-36

Query Match 57.4%; Score 62; DB 12; Length 104;
Best Local Similarity 65.2%; Pred. No. 1;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 AKAAXKRAAKAAXKRAAKKRA 23
DB 82 AAAAAKRAAAAAAAAAAAAAK 104

RESULT 12

US-10-393-449-86

Sequence 86, Application US/10393449

Publication No. US20030224412A1

GENERAL INFORMATION:

APPLICANT: Anderson, David

APPLICANT: Bogenberger, Jakob M.

APPLICANT: Peele, Beau R.

TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S

FILE REFERENCE: RIGL-007CIP3

CURRENT APPLICATION NUMBER: US/10/393,449

CURRENT FILING DATE: 2003-03-18

PRIOR APPLICATION NUMBER: US 10/177,725

PRIOR FILING DATE: 2002-06-20

PRIOR APPLICATION NUMBER: US 09/415,765

PRIOR FILING DATE: 1999-10-08

PRIOR APPLICATION NUMBER: US 09/169,015

PRIOR FILING DATE: 1998-10-08

NUMBER OF SEQ ID NOS: 173

SOFTWARE: PatentIn version 3.1

SEQ ID NO 86

LENGTH: 104

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: synthetic

FEATURE:

NAME/KEY: MISC FEATURE

LOCATION: (37)-(68)

OTHER INFORMATION: "Xaa" at positions 37-39, 41-43, 45-46, 48-50, 52-53, 55-57, 59-6

OTHER INFORMATION: 1, 63-64 and 66-68 can be any amino acid

US-10-393-449-86

Query Match 57.4%; Score 62; DB 12; Length 104;
Best Local Similarity 65.2%; Pred. No. 1;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 AKAAXKRAAKAAXKRAAKKRA 23
DB 82 AAAAAKRAAAAAAAAAAAAAK 104

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RESULT 13
US-10-177-725-36
; Sequence 36, Application US/10177725
; Publication No. US20030143562A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
; FILE REFERENCE: A-66900-4/RMS/AMS
; CURRENT APPLICATION NUMBER: US/10/177,725
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 36
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-177-725-36

Query Match          57.4%; Score 62; DB 14; Length 104;
Best Local Similarity 65.2%; Pred. No. 1;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 AKAAKKRAAKAAGKAAGAAGK 23
Db 82 AAAAAKKAAGAAAAAAAKKK 104

RESULT 14
US-10-177-725-86
; Sequence 86, Application US/10177725
; Publication No. US20030143562A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
; FILE REFERENCE: A-66900-4/RMS/AMS
; CURRENT APPLICATION NUMBER: US/10/177,725
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 86
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
; NAME/KEY: MISC FEATURE
; LOCATION: (37)-(68)
; OTHER INFORMATION: "Xaa" at positions 37-39, 41-43, 45-46, 48-50, 52-53, 55-57, 59-6
; OTHER INFORMATION: 1, 63-64 and 66-68 can be any amino acid
US-10-177-725-86

Query Match          57.4%; Score 62; DB 14; Length 104;
Best Local Similarity 65.2%; Pred. No. 1;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 AKAAKKRAAKAAGKAAGAAGK 23
Db 82 AAAAAKKAAGAAAAAAAKKK 104
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Db 82 AAAAAKKAAGAAAAAAAKKK 104

RESULT 15
US-09-988-165B-7
; Sequence 7, Application US/09988165B
; Publication No. US20030144473A1
; GENERAL INFORMATION:
; APPLICANT: Syntibiotec Gesellschaft zur Erforschung und Entwicklung
; APPLICANT: auf dem Gebiet der Biotechnologie mbH
; TITLE OF INVENTION: Peptides for the Production of Preparations
; TITLE OF INVENTION: for the Diagnosis and Therapy of Autoimmune Diseases
; FILE REFERENCE: 3642
; CURRENT APPLICATION NUMBER: US/09/988,165B
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: US Serial Number 07/946,180
; PRIOR FILING DATE: 1992-09-16
; NUMBER OF SEQ ID NOS: 31
; SEQ ID NO 7
; LENGTH: 27
; TYPE: PRT
; ORGANISM: human
US-09-988-165B-7

Query Match          56.5%; Score 61; DB 10; Length 27;
Best Local Similarity 64.0%; Pred. No. 0.36;
Matches 16; Conservative 3; Mismatches 4; Indels 2; Gaps 1;

QY 2 KAAKRAA--KAAKRAAKAAGKRA 24
Db 3 KAAKPKAAKPKAAKPKAAKAAKKA 27

Search completed: August 17, 2004, 17:19:25
Job time : 37.8416 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 7.9604 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-6

Perfect score: 72

Sequence: 1 ARKKAARAKKA 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	52	72.2	60	1	US-08-346-849-16
2	52	72.2	60	2	US-08-293-284A-16
3	52	72.2	60	4	US-08-898-300-16
4	48	66.7	407	4	US-09-252-931A-29581
5	47	65.3	33	1	US-08-303-025-16
6	47	65.3	33	2	US-08-436-703B-4
7	47	65.3	180	6	5273901-7
8	47	65.3	180	6	5482709-6
9	46	63.9	29	1	US-08-152-488-12
10	46	63.9	29	1	US-08-303-025-14
11	46	63.9	29	1	US-08-677-304-12
12	46	63.9	29	2	US-08-436-703B-16
13	46	63.9	214	3	US-09-041-889-27
14	46	63.9	214	4	US-09-417-264-27
15	44	61.1	14	4	US-09-019-490-1
16	44	61.1	15	3	US-09-041-889-23
17	44	61.1	15	3	US-08-837-058-23
18	44	61.1	15	4	US-08-417-264-23
19	44	61.1	21	2	US-08-660-592-9
20	44	61.1	21	3	US-09-166-930A-7
21	44	61.1	28	1	US-08-303-025-12
22	44	61.1	28	2	US-08-436-703B-1
23	44	61.1	29	1	US-08-152-488-10
24	44	61.1	29	1	US-08-152-488-11
25	44	61.1	29	1	US-08-303-025-10
26	44	61.1	29	1	US-08-303-025-11
27	44	61.1	29	1	US-08-303-025-13

US-08-346-849-16
; Sequence 16, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/346,849
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-346-849-16

ALIGNMENTS

RESULT 1

US-08-346-849-16

; Sequence 16, Application US/08346849

; Patent No. 5670483

; GENERAL INFORMATION:

; APPLICANT: Zhang, Shuguang

; APPLICANT: Lockshin, Curtis

; APPLICANT: Rich, Alexander

; APPLICANT: Holmes, Todd

; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY

; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES

; NUMBER OF SEQUENCES: 64

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

; STREET: Two Militia Drive

; CITY: Lexington

; STATE: Massachusetts

; COUNTRY: U.S.A.

; ZIP: 02173-4799

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/346,849

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/973,326

; FILING DATE: 28 DECEMBER 1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Brook, David E.

; REGISTRATION NUMBER: 22,592

; REFERENCE/DOCKET NUMBER: MIT-6008

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 861-6240

; TELEFAX: (617) 861-9540

; INFORMATION FOR SEQ ID NO: 16:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 60 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-346-849-16

Query Match 72.2%; Score 52; DB 1; Length 60;

Best Local Similarity 75.0%; Pred. No. 0.53;

Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARAAKKA 16
Db 11 AKKKAARAAKKA 26

RESULT 2
US-08-293-284A-16
; Sequence 16, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 64
; TITLE OF INVENTION: THEREFOR
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; City: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284A
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-293-284A-16

Query Match 72.2%; Score 52; DB 2; Length 60;
Best Local Similarity 75.0%; Pred. No. 0.53;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARAAKKA 16
Db 11 AKKKAARAAKKA 26

RESULT 3
US-08-898-300-16
; Sequence 16, Application US/08898300
; Patent No. 6548630
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY

; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; City: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/898,300
; FILING DATE: 22 JULY 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/346,849
; FILING DATE: 30 NOVEMBER 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008FB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781) 861-6240
; TELEFAX: (781) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-898-300-16

Query Match 72.2%; Score 52; DB 4; Length 60;
Best Local Similarity 75.0%; Pred. No. 0.53;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARAAKKA 16
Db 11 AKKKAARAAKKA 26

RESULT 4
US-09-252-991A-29581
; Sequence 29581, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29581
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29581

Query Match 66.7%; Score 48; DB 4; Length 407;
Best Local Similarity 66.7%; Pred. No. 11;

RESULT 6
US-08-436-703B-4

RESULT 7
5273901-7
; Patent No. 5273901
; APPLICANT: ORCOSHON, JAMES W.; STRAUSBERG, ROBERT L.; WILSON,
; SUSAN D.; POPE, SHARON H.; STRAUSBERG, SUSAN L.; RUFF, MICHAEL D.;
; AUGUSTINE, PATRICIA C.; DANFORTH, HARRY D.
; TITLE OF INVENTION: GENETICALLY ENGINEERED COCCIDIOSIS
; SPOOROZITE 21.5 KB ANTIGEN, AC-6B
; NUMBER OF SEQUENCES: 11
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/581,693

us-09-496-391-6.ra1

Thu Aug 19 07:16:07 2004

; FILING DATE: 12-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 215,162
; FILING DATE: 03-JUL-1988
; APPLICATION NUMBER: 746,520
; FILING DATE: 19-JUN-1985
; APPLICATION NUMBER: 627,811
; FILING DATE: 05-JUL-1984
; SEQ ID NO:7
; LENGTH:180
5273901-7

Query Match 65.3%; Score 47; DB 6; Length 180;
Best Local Similarity 68.8%; Pred. No. 7.1;
Matches 11; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAA 16
DB 153 AASTAAKAAQKAAKAA 168

RESULT 8
5482709-6
; Patent No. 5482709
; APPLICANT: JACOBSON, JAMES W.; STRAUSBERG, ROBERT L.; WILSON, SUSAN D.; POPE, SHARON H.; STRAUSBERG, SUSAN L.; RUFF, MICHAEL D.; AUGUSTINE, PATRICIA C.; DANFORTH, HARRY D.
; TITLE OF INVENTION: EIMERIA ANTIGENIC COMPOSITION WHICH ELICITS ANTIBODIES AGAINST AVIAN COCCIDIOSIS
; NUMBER OF SEQUENCES: 10
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/148,432
; FILING DATE: 08-NOV-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 581,693
; FILING DATE: 12-SEP-1990
; APPLICATION NUMBER: 215,162
; FILING DATE: 03-JUL-1989
; APPLICATION NUMBER: 746,520
; FILING DATE: 19-JUN-1985
; APPLICATION NUMBER: 627,811
; FILING DATE: 05-JUL-1984
; SEQ ID NO:6
; LENGTH: 180
5482709-6

Query Match 65.3%; Score 47; DB 6; Length 180;
Best Local Similarity 68.8%; Pred. No. 7.1;
Matches 11; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKAAKAAKAAKAA 16
DB 153 AASTAAKAAQKAAKAA 168

RESULT 9
US-08-152-488-12
; Sequence 12, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESS: Benita J, Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America

; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-152-488-12

Query Match 63.9%; Score 46; DB 1; Length 29;
Best Local Similarity 66.7%; Pred. No. 1.8;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 RKAAKAAKAAKAA 16
DB 2 KKAAKAAKAAKAA 16

RESULT 10
US-08-303-025-14
; Sequence 14, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESS: Benita J, Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS v.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994

CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7WH-060548-00231
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-14

Query Match 63.9%; Score 45; DB 1; Length 29;
Best Local Similarity 66.7%; Pred. No. 1.8;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 RKKAARKKAARKKA 16
DB 2 KKKAARKKAARKKA 16

RESULT 11
US-08-677-304-12
Sequence 12, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664

REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: No. 5721212 Relevant
TOPOLOGY: No. 5721212 Relevant
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-677-304-12

Query Match 63.9%; Score 46; DB 1; Length 29;
Best Local Similarity 66.7%; Pred. No. 1.8;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 RKKAARKKAARKKA 16
DB 2 KKKAARKKAARKKA 16

RESULT 12
US-08-436-703B-16
Sequence 16, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Suite 1525
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:

LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-16

Query Match 63.9%; Score 46; DB 2; Length 29;
Best Local Similarity 66.7%; Pred. No. 1.8;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 RKAAKAAKKA 16
DB 2 KKAARKAAKKA 16

RESULT 13

US-09-041-889-27
Sequence 27, Application US/09041889
Patent No. 6033844

GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
Ulcerative Colitis, and Clinical Subtypes Thereof, Using
TITLE OF INVENTION: Microbial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,889
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/837,058
FILING DATE: 11-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-889-27

Query Match 63.9%; Score 46; DB 3; Length 214;
Best Local Similarity 71.4%; Pred. No. 1.1;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 KKAARKAAKKA 16
DB 121 KKAARKAAKKA 134

Query Match 63.9%; Score 46; DB 3; Length 214;
Best Local Similarity 71.4%; Pred. No. 1.1;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 KKAARKAAKKA 16
DB 121 KKAARKAAKKA 134

RESULT 14

US-09-417-264-27
Sequence 27, Application US/09417264
Patent No. 6537768

GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
Ulcerative Colitis, and Clinical Subtypes Thereof, Using
TITLE OF INVENTION: Microbial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,889
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-417-264-27

Query Match 63.9%; Score 46; DB 4; Length 214;
Best Local Similarity 71.4%; Pred. No. 1.1;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 KKAARKAAKKA 16
DB 121 KKAARKAAKKA 134

RESULT 15

US-09-019-490-1
Sequence 1, Application US/09019490
Patent No. 6586334

GENERAL INFORMATION:
APPLICANT: McLaughlin, Mark L.
APPLICANT: Yokum, Thomas S.
APPLICANT: Enright, Frederick M.
APPLICANT: Elzer, Philip H.
APPLICANT: Hammer, Robert P.
TITLE OF INVENTION: Short Amphipathic Peptides with
TITLE OF INVENTION: Activity
TITLE OF INVENTION: Against Bacteria and Intracellular Pathogens
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: John H. Runnels
STREET: P. O. Box 2471

Query Match 63.9%; Score 46; DB 4; Length 214;
Best Local Similarity 71.4%; Pred. No. 1.1;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 KKAARKAAKKA 16
DB 121 KKAARKAAKKA 134

RESULT 16

US-09-019-490-1
Sequence 1, Application US/09019490
Patent No. 6586334

GENERAL INFORMATION:
APPLICANT: McLaughlin, Mark L.
APPLICANT: Yokum, Thomas S.
APPLICANT: Enright, Frederick M.
APPLICANT: Elzer, Philip H.
APPLICANT: Hammer, Robert P.
TITLE OF INVENTION: Short Amphipathic Peptides with
TITLE OF INVENTION: Activity
TITLE OF INVENTION: Against Bacteria and Intracellular Pathogens
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: John H. Runnels
STREET: P. O. Box 2471

Query Match 63.9%; Score 46; DB 4; Length 214;
Best Local Similarity 71.4%; Pred. No. 1.1;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 KKAARKAAKKA 16
DB 121 KKAARKAAKKA 134

CITY: Baton Rouge
STATE: LA
COUNTRY: USA
ZIP: 70821-2471
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/019,490
FILING DATE: 06-FEB-1997
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Runnels, John H.
REGISTRATION NUMBER: 33451
REFERENCE/DOCKET NUMBER: 9619
TELECOMMUNICATION INFORMATION:
TELEPHONE: (504) 387-3221
TELEFAX: (504) 346-8049
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
OTHER INFORMATION: /note= "Amidated at C-terminus;"
PUBLICATION INFORMATION:
AUTHORS: Yokum, T. S.
AUTHORS: Elzer, Philip H.
AUTHORS: McLaughlin, Mark L.
TITLE: Antimicrobial alpha, alpha-dialkylated Amino
TITLE: Acid Rich Peptides with in-Vivo Activity against
TITLE: an Intracellular Pathogen
JOURNAL: Journal of Medicinal Chemistry
VOLUME: 39
ISSUE: 19
PAGES: 3603-3605
DATE: 13-Sept-1996
RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 14
US-09-019-490-1

Query Match 61.1%; Score 44; DB 4; Length 14;
Best Local Similarity 76.9%; Pred. No. 1.7;
Matches 10; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ARKKAARKKA 13
| | | | | | | | | |
Db 2 AAKKAARKKA 14

Search completed: August 17, 2004, 16:14:25
Job time : 7.9604 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 25.2277 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-6

Perfect score: 72

Sequence: 1 ARKKAARAKKA 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 segs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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2:	/cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3:	/cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4:	/cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
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17:	/cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18:	/cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	53	73.6	400	12	US-10-424-599-219563
2	52	72.2	60	16	US-10-390-472-16
3	52	72.2	258	14	US-10-156-761-9957
4	51	70.8	685	15	US-10-369-493-3684
5	50.5	70.1	18	12	US-10-169-613-35
6	50.5	70.1	21	12	US-10-169-613-13
7	50	69.4	369	9	US-09-738-626-4885
8	50	69.4	388	9	US-09-948-540-2
9	49	68.1	372	12	US-10-282-122A-68109
10	48	66.7	336	12	US-10-282-122A-69962
11	48	66.7	347	14	US-10-282-122A-66237
12	48	66.7	347	14	US-10-127-032-120
13	47.5	66.0	21	12	US-10-169-613-18
14	47.5	66.0	21	12	US-10-169-613-22
15	47	65.3	147	12	US-10-282-122A-61864

ALIGNMENTS

RESULT 1

US-10-424-599-219563

; Sequence 219563, Application US/10424599

; Publication No. US20040031072A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa Thomas J

; APPLICANT: Kovalic David K

; APPLICANT: Zhou Yihua

; APPLICANT: Cao Yongwei

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599

; NUMBER OF SEQ ID NOS: 285684

; SEQ ID NO 219563

; LENGTH: 400

; TYPE: PRT

; ORGANISM: Glycine max

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)..(400)

; OTHER INFORMATION: unsure at all Xaa locations

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT3847_40293C.1.pep

; US-10-424-599-219563

Query Match 73.6%; Score 53; DB 12; Length 400;

Best Local Similarity 73.3%; Pred. No. 7.4;

Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 RKKAARAKKA 16

Db 298 RKQAARAKKA 312

RESULT 2

US-10-390-472-16

Sequence 13875, A
Sequence 152005, A
Sequence 37, Appl
Sequence 33, Appl
Sequence 53050, A
Sequence 61991, A
Sequence 82547, A
Sequence 64817, A
Sequence 27, Appl
Sequence 173357, A
Sequence 8221, Ap
Sequence 8303, Ap
Sequence 10047, A
Sequence 202, App
Sequence 3, Appli
Sequence 1, Appli
Sequence 18, Appli
Sequence 7, Appli
Sequence 23, Appli
Sequence 1, Appli
Sequence 3, Appli
Sequence 5, Appli
Sequence 6, Appli
Sequence 1, Appli
Sequence 84, Appl
Sequence 131888, A
Sequence 24, Appl
Sequence 78190, A
Sequence 55748, A

US-10-156-761-13875
US-10-437-963-152005
US-10-169-613-37
US-10-169-613-33
US-10-282-122A-53050
US-10-282-122A-61991
US-10-282-122A-62547
US-10-282-122A-64817
US-10-229-567-27
US-10-437-963-173357
US-10-128-714-8221
US-10-128-714-8303
US-10-156-761-10047
US-09-765-086-202
US-10-363-208-3
US-10-414-342-1
US-10-158-566-18
US-10-290-385-7
US-10-229-567-23
US-09-816-989A-1
US-09-816-989A-5
US-09-816-989A-6
US-10-282-122A-63911
US-10-229-567-1
US-10-259-194A-84
US-10-437-963-131888
US-09-820-843A-24
US-10-282-122A-78190
US-10-282-122A-55748

47 65.3 481 14
47 65.3 827 16
46.5 64.6 18 12
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46 63.9 59 12
46 63.9 170 12
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46 63.9 214 12
46 63.9 214 12
46 63.9 512 16
46 63.9 777 14
45 62.5 593 14
45 62.5 917 14
44 61.1 14 9
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44 61.1 200 12
44 61.1 212 14
44 61.1 240 15
44 61.1 263 16
44 61.1 309 10
44 61.1 388 12
44 61.1 428 12

; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: GB 0005702.6
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/GB99/02851
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 35
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial peptide of helical conformation
US-10-169-613-35

Query Match 70.1%; Score 50.5; DB 12; Length 18;
Best Local Similarity 87.5%; Pred. No. 0.77;
Matches 14; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 AAKKAARKKA 16
Db 2 AAKKAARKKA 16

RESULT 6
US-10-169-613-13
; Sequence 13, Application US/10169613
; Publication No. US2003008659A1
; GENERAL INFORMATION:
; APPLICANT: Redkai, Oystein
; APPLICANT: Svendsen, John
; APPLICANT: Wikman, Mari
; APPLICANT: Soltstad, Torese
; APPLICANT: Yang, Nannan
; TITLE OF INVENTION: Methods of peptide preparation
; FILE REFERENCE: 1181-258
; CURRENT APPLICATION NUMBER: US/10/169,613
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: PCT/GB00/03378
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: GB 0005702.6
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/GB99/02851
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 13
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: antimicrobial peptide
US-10-169-613-13

Query Match 70.1%; Score 50.5; DB 12; Length 21;
Best Local Similarity 87.5%; Pred. No. 0.89;
Matches 14; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 AAKKAARKKA 16
Db 2 AAKKAARKKA 16

RESULT 7
US-09-738-626-4885
; Sequence 4885, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIO
; APPLICANT: OCHIAI, KEIKO

; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: Patent in ver. 3.0
; SEQ ID NO 4885
; LENGTH: 369
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-4885

Query Match 69.4%; Score 50; DB 9; Length 369;
Best Local Similarity 75.0%; Pred. No. 18;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 AAKKAARKKA 16
Db 340 AAKKAARKKA 355

RESULT 8
US-09-938-540-2
; Sequence 2, Application US/09938540
; Patent No. US20020151001A1
; GENERAL INFORMATION:
; APPLICANT: Degussa AG
; TITLE OF INVENTION: New nucleotide sequences which code for the ccpl gene
; FILE REFERENCE: 000059 BT
; CURRENT APPLICATION NUMBER: US/09/938,540
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-938-540-2

Query Match 69.4%; Score 50; DB 9; Length 388;
Best Local Similarity 75.0%; Pred. No. 19;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 AAKKAARKKA 16
Db 359 AAKKAARKKA 374

RESULT 9
US-10-282-122A-68109
; Sequence 68109, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant

```

; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT FILING DATE: 2003-02-20
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 68109
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Pseudomonas putida
US-10-282-122A-68109

Query Match 68.1%; Score 49; DB 12; Length 372;
Best Local Similarity 66.7%; Pred. No. 25;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ARKKAARAKKAAK 15
:||||:||||:
Db 192 AKKAAEAKKAAE 206

RESULT 10
US-10-282-122A-69962
; Sequence 69962, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT FILING DATE: 2003-02-20
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/269,308
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 68109
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Pseudomonas putida
US-10-282-122A-68109

Query Match 68.1%; Score 49; DB 12; Length 372;
Best Local Similarity 66.7%; Pred. No. 25;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ARKKAARAKKAAK 15
:||||:||||:
Db 192 AKKAAEAKKAAE 206

RESULT 11
US-10-282-122A-66237
; Sequence 66237, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT FILING DATE: 2003-02-20
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/269,308
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 69962
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match 66.7%; Score 48; DB 12; Length 336;
Best Local Similarity 66.7%; Pred. No. 31;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ARKKAARAKKAAK 15
:||||:||||:
Db 174 AKKAAEAKKAAE 188

RESULT 11
US-10-282-122A-66237
; Sequence 66237, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT FILING DATE: 2003-02-20
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/269,308
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 69962
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

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; NUMBER OF SEQ ID NOS: 79614
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 66237
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-282-122A-66237

Query Match      66.7%; Score 48; DB 12; Length 347;
Best local Similarity 66.7%; Pred. No. 32;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0

QY      1 ARKKAAXAARKKAAK 15
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DB      163 AKKKAEDAKKKAEE 177

RESULT 12
US-10-127-032-120
; Sequence 120, Application US/10127032
; Publication No. US20030113742A1
; GENERAL INFORMATION:
; APPLICANT: Whiteley, Marvin
; APPLICANT: Bangera, M. Gita
; APPLICANT: Lory, Stephen
; APPLICANT: Greenberg, Everett Peter
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
; TITLE OF INVENTION: BIOFILM FORMATION
; FILE REFERENCE: UIZ-070CP
; CURRENT APPLICATION NUMBER: US/10/127,032
; CURRENT FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/285,190
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: US 60/344,142
; PRIOR FILING DATE: 2001-10-24
; NUMBER OF SEQ ID NOS: 170
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-127-032-120

Query Match      66.7%; Score 48; DB 14; Length 347;
Best local Similarity 66.7%; Pred. No. 32;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0

QY      1 ARKKAAXAARKKAAK 15
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DB      163 AKKKAEDAKKKAEE 177

RESULT 13
US-10-169-613-18
; Sequence 18, Application US/10169613
; Publication No. US20030086959A1
; GENERAL INFORMATION:
; APPLICANT: Redkdal, Oystein
; APPLICANT: Svendsen, John
; APPLICANT: Wikman, Mari
; APPLICANT: Solstad, Torese
; APPLICANT: Yang, Nannan
; TITLE OF INVENTION: Methods of peptide preparation
; FILE REFERENCE: 1181-258
; CURRENT APPLICATION NUMBER: US/10/169,613
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: PCT/GB00/03378
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: GB 0005702.6
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/GB99/02851
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 40

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; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61864
; LENGTH: 147
; TYPE: PRT
; ORGANISM: Mycobacterium avium
US-10-282-122A-61864

Query Match      65.3%; Score 47; DB 12; Length 147;
Best Local Similarity 73.3%; Pred.No. 19;
Matches 11; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 ARKKAARKKAAK 15
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Db      62 APEKAEKAKKAAK 76

Search completed: August 17, 2004, 17:19:15
Job time : 26.2277 secs
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; RESULT 1
; US-09-095-855-201
; Sequence 201, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:

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SUMMARIES

Result No.	Query			ID	Description
	Score	Match	Length		
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2	58	71.6	223	4	Sequence 201, App
3	58	71.6	223	4	Sequence 201, App
4	53	65.4	218	3	Sequence 4, Appli
5	53	65.4	218	3	Sequence 4, Appli
6	51	63.0	469	4	Sequence 1356, A
7	50	61.7	346	3	Sequence 23, Appl
8	49	60.5	26	2	Sequence 6, Appli
9	49	60.5	26	3	Sequence 6, Appli
10	48	59.3	109	4	Sequence 7, Appli
11	47.5	58.6	64	4	Sequence 1550, Ap
12	47	58.0	28	1	Sequence 12, Appl
13	47	58.0	28	2	Sequence 1, Appli
14	47	58.0	29	1	Sequence 10, Appl
15	47	58.0	29	1	Sequence 11, Appl
16	47	58.0	29	1	Sequence 12, Appl
17	47	58.0	29	1	Sequence 10, Appl
18	47	58.0	29	1	Sequence 11, Appl
19	47	58.0	29	1	Sequence 13, Appl
20	47	58.0	29	1	Sequence 14, Appl
21	47	58.0	29	1	Sequence 10, Appl
22	47	58.0	29	1	Sequence 11, Appl
23	47	58.0	29	1	Sequence 12, Appl
24	47	58.0	29	2	Sequence 3, Appli
25	47	58.0	29	2	Sequence 15, Appl
26	47	58.0	29	2	Sequence 16, Appl
27	47	58.0	32	1	Sequence 13, Appl

US-09-095-855-201

Query Match 71.6%; Score 58; DB 3; Length 223;
Best Local Similarity 77.8%; Pred. No. 0.42;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAAKARA 18
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DB 147 AKKATAAKKAAAPAKKATA 164

RESULT 2

US-09-205-426-201
; Sequence 201, Application US/09205426
; Patent No. 6406704
; GENERAL INFORMATION:

; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; TITLE OF INVENTION: Compounds and Methods for Treatment and
; TITLE OF INVENTION: Diagnosis of Mycobacterial Infections
; FILE REFERENCE: 11000.1002c4
; CURRENT APPLICATION NUMBER: US/09/205,426
; CURRENT FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: 09/095,855
; EARLIER FILING DATE: 1998-06-11
; EARLIER APPLICATION NUMBER: 08/997,362
; EARLIER FILING DATE: 1997-12-23
; EARLIER APPLICATION NUMBER: 08/873,970
; EARLIER FILING DATE: 1997-06-12
; EARLIER APPLICATION NUMBER: 08/705,347
; EARLIER FILING DATE: 1996-08-29
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 201
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae

US-09-205-426-201

Query Match 71.6%; Score 58; DB 4; Length 223;
Best Local Similarity 77.8%; Pred. No. 0.42;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAAKARA 18
||||| ||||| ||||| |||||
DB 147 AKKATAAKKAAAPAKKATA 164

RESULT 3

US-09-041-889-4
; Sequence 4, Application US/09041889
; Patent No. 6033864
; GENERAL INFORMATION:

; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Ofer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Microbial UC panCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/041,889

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA: US 08/837,058

APPLICATION NUMBER: 11-APR-1997

FILING DATE: 11-APR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-PM 3006

TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 218 amino acids

TYPE: amino acid

TOPOLOGY: linear

FEATURE:

NAME/KEY: Peptide

LOCATION: 1..218

OTHER INFORMATION: /note= "product = Human Histone

OTHER INFORMATION: H1-S-4"

US-09-041-889-4

Query Match 65.4%; Score 53; DB 3; Length 218;
Best Local Similarity 61.1%; Pred. No. 1.9;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAAKARA 18
||||| ||||| ||||| |||||
DB 166 AKKAKSPKKAAKPKKA 183

RESULT 4

US-08-837-058-4
; Sequence 4, Application US/08837058
; Patent No. 6074835
; GENERAL INFORMATION:

; APPLICANT: Braun, Jonathan
; APPLICANT: Targan, Stephan R.
; APPLICANT: Eggena, Mark
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Histone H1
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/837,058

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-PM 2438

TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 218 amino acids

TYPE: amino acid

TOPOLOGY: linear

FEATURE:
NAME/KEY: Peptide
LOCATION: 1..218
OTHER INFORMATION: /note= "product = Human Histone
OTHER INFORMATION: HI-S-4"
US-08-837-058-4

Query Match 65.4%; Score 53; DB 3; Length 218;
Best Local Similarity 61.1%; Pred. No. 1.9;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAAKARA 18
Db 166 AKKAKSPKAAKAAKPKKA 183

RESULT 5
US-09-417-264-4
Sequence 4, Application US/09417264
Patent No. 6537768
GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Ofer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
TITLE OF INVENTION: Microbial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,889
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 218 amino acids
TYPE: amino acid
TOPOLOGY: linear

FEATURE:
NAME/KEY: Peptide
LOCATION: 1..218
OTHER INFORMATION: /note= "product = Human Histone
OTHER INFORMATION: HI-S-4"
US-09-417-264-4

Query Match 65.4%; Score 53; DB 4; Length 218;
Best Local Similarity 61.1%; Pred. No. 1.9;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAAKARA 18
Db 166 AKKAKSPKAAKAAKPKKA 183

RESULT 6
US-09-489-039A-13565
Sequence 13565, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLSBSIELLA
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709-2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 13565
LENGTH: 469
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13565

Query Match 63.0%; Score 51; DB 4; Length 469;
Best Local Similarity 66.7%; Pred. No. 6.7;
Matches 12; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAAKARA 18
Db 299 AKKAAKAAKAAKAAKAAA 316

RESULT 7
US-09-352-990-23
Sequence 23, Application US/09352990
Patent No. 6255090
GENERAL INFORMATION:
APPLICANT: Famodu, Layo O.
APPLICANT: Orozco, Buddy
APPLICANT: Rafalski, Antoni
TITLE OF INVENTION: Plant Aminoacyl-tRNA Synthetase
FILE REFERENCE: BB-1191
CURRENT APPLICATION NUMBER: US/09/352,990
CURRENT FILING DATE: 1999-07-14
EARLIER APPLICATION NUMBER: 60/092,866
EARLIER FILING DATE: July 15, 1998
NUMBER OF SEQ ID NOS: 29
SOFTWARE: Microsoft Office 97
SEQ ID NO 23
LENGTH: 346
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-352-990-23

Query Match 61.7%; Score 50; DB 3; Length 346;
Best Local Similarity 71.4%; Pred. No. 6.9;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 5 RAAKKAAKAAKARA 18
Db 12 KGAKKAAKAAKARA 25

RESULT 8
US-08-894-339-6
Sequence 6, Application US/08894339
Patent No. 5945400
GENERAL INFORMATION:
APPLICANT: SHERMAN, Daniel
APPLICANT: BYK, Gerardo
APPLICANT: SCHWARTZ, Bertrand
TITLE OF INVENTION: NUCLEIC ACID-CONTAINING COMPOSITION,
TITLE OF INVENTION: PREPARATION AND USE THEREOF
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:

```

; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Road, Mailstop 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/894,339
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 95/01865
; FILING DATE: 17-FEB-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/FR96/00248
; FILING DATE: 15-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Savitzky Esq., Martin F.
; REGISTRATION NUMBER: 29,699
; REFERENCE/DOCKET NUMBER: ST95012-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 454-3816
; TELEFAX: (610) 454-3808
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-894-339-6

Query Match 60.5%; Score 49; DB 2; Length 26;
Best Local Similarity 58.8%; Pred. No. 0.98;
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 2 KKAARAAKAKAAKAKARA 18
Db 1 KKAKSPKKAAPKKA 17

RESULT 9
US-09-306-044-6
; Sequence 6, Application US/09306044
; Patent No. 6200956
; GENERAL INFORMATION:
; APPLICANT: SHERMAN, Daniel
; APPLICANT: BYK, Gerardo
; APPLICANT: SCHWARTZ, Bertrand
; TITLE OF INVENTION: NUCLEIC ACID-CONTAINING COMPOSITION,
; PREPARATION AND USE THEREOF
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Road, Mailstop 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/306,044
; FILING DATE:
; CLASSIFICATION:

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/894,339
; FILING DATE:
; PRIOR APPLICATION DATA: WO PCT/FR96/00248
; APPLICATION NUMBER:
; FILING DATE: 15-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Savitzky Esq., Martin F.
; REGISTRATION NUMBER: 29,699
; REFERENCE/DOCKET NUMBER: ST95012-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 454-3816
; TELEFAX: (610) 454-3808
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-306-044-6

Query Match 60.5%; Score 49; DB 3; Length 26;
Best Local Similarity 58.8%; Pred. No. 0.98;
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 2 KKAARAAKAKAAKAKARA 18
Db 1 KKAKSPKKAAPKKA 17

RESULT 10
US-09-405-743A-7
; Sequence 7, Application US/09405743A
; Patent No. 6514938
; GENERAL INFORMATION:
; APPLICANT: Yeda Research and Development Co., Ltd.
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS
; FILE REFERENCE: 68607-A
; CURRENT APPLICATION NUMBER: US/09/405,743A
; CURRENT FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
; OTHER INFORMATION: PEPTIDE
; US-09-405-743A-7

Query Match 59.3%; Score 48; DB 4; Length 109;
Best Local Similarity 65.0%; Pred. No. 4.6;
Matches 13; Conservative 3; Mismatches 2; Indels 2; Gaps 1;

QY 1 AKKARAA--KKARAAKAKARA 18
Db 13 AKKAKAAKEKKAYAKKEAKA 32

RESULT 11
US-09-732-210-1550
; Sequence 1550, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B

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CURRENT APPLICATION NUMBER: US/09/732,210
CURRENT FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 60/169,513
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: US 60/169,340
PRIOR FILING DATE: 1999-12-07
NUMBER OF SEQ ID NOS: 1753
SEQ ID NO 1550
LENGTH: 64
TYPE: PRT
ORGANISM: Myxococcus xanthus
US-09-732-210-1550

Query Match 58.6%; Score 47.5; DB 4; Length 64;
Best Local Similarity 81.2%; Pred. No. 3.4;
Matches 13; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 2 KKAAKAAKAAKAAK 17
DB 47 KKAAKAAK-AAKAAK 61

RESULT 12
US-08-303-025-12
Sequence 12, Application US/08303025
Patent No. 5614434
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 150 West Jefferson, Suite 2500
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226-4415

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS V.6.22
SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7MH-060548-00231
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE: N/A
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A

DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-12

Query Match 58.0%; Score 47; DB 1; Length 28;
Best Local Similarity 73.7%; Pred. No. 1.9;
Matches 14; Conservative 3; Mismatches 0; Indels 2; Gaps 2;

QY 1 AKKA-RAAKKA-RAAKKAR 17
DB 2 AKKA-RAAKKA-RAAKKAR 20

RESULT 13
US-08-436-703B-1
Sequence 1, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
STREET: Suite 1525
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44MB, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE: N/A
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A

US-08-436-703B-1
Query Match 58.0%; Score 47; DB 2; Length 28;
Best Local Similarity 73.7%; Pred. No. 1.9;
Matches 14; Conservative 3; Mismatches 0; Indels 2; Gaps 2;

QY 1 AKKA-RAAKKA-RAAKKAR 17

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Db      :||||:||||:||||:
          2 AKKAKAAKAAKAAKAAK 20

RESULT 14
US-08-152-488-10
; Sequence 10, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-152-488-10

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Query Match      58.0%; Score 47; DB 1; Length 29;
Best Local Similarity 73.7%; Pred. No. 2;
Matches 14; Conservative 0; Indels 0; Gaps 2;

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QY      1 AKKA-RAAKKA-RAAKKAR 17
Db      6 AKKAKAAKAAKAAKAAK 24

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RESULT 15
US-08-152-488-11
; Sequence 11, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:

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; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-152-488-11

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Query Match      58.0%; Score 47; DB 1; Length 29;
Best Local Similarity 73.7%; Pred. No. 2;
Matches 14; Conservative 3; Mismatches 0; Indels 2; Gaps 2;

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QY      1 AKKA-RAAKKA-RAAKKAR 17
Db      6 AKKAKAAKAAKAAKAAK 24

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Job time : 9.95545 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 28.3812 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-7

Perfect score: 81

Sequence: 1 AKKARAANKAKARA 18

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications_AA:
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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	58	71.6	223	13 US-10-051-643-201	Sequence 201, App
2	58	71.6	223	14 US-10-205-979-52	Sequence 52, Appl
3	54	65.7	243	9 US-09-771-161A-127	Sequence 127, App
4	53	65.4	26	9 US-09-888-721-2	Sequence 2, Appli
5	53	65.4	26	9 US-09-888-721-32	Sequence 32, Appl
6	53	65.4	55	16 US-10-240-430-8	Sequence 8, Appli
7	53	65.4	66	16 US-10-240-430-7	Sequence 7, Appli
8	53	65.4	130	14 US-10-262-209-2	Sequence 2, Appli
9	53	65.4	130	16 US-10-240-430-5	Sequence 5, Appli
10	53	65.4	218	14 US-10-229-567-4	Sequence 4, Appli
11	53	65.4	234	14 US-10-262-209-1	Sequence 1, Appli
12	53	65.4	234	16 US-10-240-430-2	Sequence 2, Appli
13	53	65.4	344	15 US-10-369-493-1440	Sequence 1440, Ap
14	51	63.0	272	14 US-10-156-761-12370	Sequence 12370, A
15	50	61.7	323	12 US-10-282-122A-59321	Sequence 59321, A

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16 50 61.7 346 10 US-09-846-589A-23 Sequence 23, Appl
17 49 60.5 372 12 US-10-282-122A-58109 Sequence 68109, A
18 49 60.5 428 12 US-10-282-122A-55748 Sequence 55748, A
19 48 59.3 109 9 US-09-816-989A-7 Sequence 7, Appli
20 47 58.0 214 12 US-10-282-122A-62547 Sequence 62547, A
21 47 58.0 214 12 US-10-282-122A-64817 Sequence 64817, A
22 47 58.0 214 14 US-10-229-567-27 Sequence 27, Appl
23 46 56.8 200 12 US-10-425-114-70601 Sequence 70601, A
24 46 56.8 301 16 US-10-437-963-182491 Sequence 182491, A
25 46 56.8 373 16 US-10-437-963-125161 Sequence 125161, A
26 45.5 56.2 21 12 US-10-169-613-13 Sequence 13, Appl
27 45 55.6 219 16 US-10-389-566-1429 Sequence 1429, Ap
28 45 55.6 347 12 US-10-282-122A-66237 Sequence 66237, A
29 45 55.6 347 14 US-10-127-033-120 Sequence 120, App
30 44.5 54.9 66 9 US-09-816-989A-4 Sequence 4, Appli
31 44 54.3 56 9 US-09-816-989A-3 Sequence 3, Appli
32 44 54.3 77 9 US-09-816-989A-5 Sequence 5, Appli
33 44 54.3 86 9 US-09-816-989A-6 Sequence 6, Appli
34 44 54.3 138 14 US-10-156-761-12462 Sequence 12462, A
35 44 54.3 140 12 US-10-424-599-219789 Sequence 219789, A
36 44 54.3 217 14 US-10-156-761-10221 Sequence 10221, A
37 44 54.3 388 12 US-10-282-122A-78190 Sequence 78190, A
38 44 54.3 421 12 US-10-282-122A-56483 Sequence 56483, A
39 44 54.3 478 12 US-10-425-114-70819 Sequence 70819, A
40 44 54.3 539 15 US-10-369-493-17058 Sequence 17058, A
41 44 54.3 666 14 US-10-032-585-7136 Sequence 7136, Ap
42 44 54.3 756 12 US-09-963-131-184 Sequence 184, App
43 44 54.3 788 14 US-10-156-761-11306 Sequence 11306, A
44 43.5 53.7 60 16 US-10-390-472-15 Sequence 16, Appl
45 43.5 53.7 232 9 US-09-738-626-5479 Sequence 5479, Ap

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ALIGNMENTS

RESULT 1

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US-10-051-643-201
; Sequence 201, Application US/10051643
; Publication No. US20020197265A1
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; TITLE OF INVENTION: Methods and Compounds for the Treatment
; TITLE OF INVENTION: of Immunologically-Mediated Diseases of the Respiratory
; TITLE OF INVENTION: System using Mycobacterium Vaccae
; FILE REFERENCE: 11000.1008c2
; CURRENT APPLICATION NUMBER: US/10/051,643
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US09/156,181
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: US 08/996,624
; PRIOR FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: Fast-Seq for Windows Version 3.0
; SEQ ID NO 201
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-051-643-201

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Query Match 71.6%; Score 58; DB 13; Length 223;
Best Local Similarity 77.8%; Pred. No. 0.8;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Oy 1 AKKARAANKAKARA 18
Db 147 AKRATAAKAAPAKKATA 164

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RESULT 2

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US-10-205-979-52
; Sequence 52, Application US/10205979
; Publication No. US20030147861A1

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GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; APPLICANT: Abernethy, Nevin
; TITLE OF INVENTION: Compounds and Methods for the Modulation
; of Immune Responses
; FILE REFERENCE: 11000.1063U
; CURRENT APPLICATION NUMBER: US/10/205,979
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/308,446
; PRIOR FILING DATE: 2001-07-26
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-205-979-52

Query Match 71.6%; Score 58; DB 14; Length 223;
Best Local Similarity 77.8%; Pred. No. 0.8;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 AKKAAKAAKAAKAAKARA 18
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Db 147 AKKATAAKKAAKAAKATA 164

RESULT 3
US-09-771-161A-127
; Sequence 127, Application US/09771161A
; Patent No. US20020110811A1
; GENERAL INFORMATION:
; APPLICANT: LEVINE, et al.
; TITLE OF INVENTION: VARIANTS OF PROTEIN KINASES
; FILE REFERENCE: 802620-2005.1
; CURRENT APPLICATION NUMBER: US/09/771,161A
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 09/724,676
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 136776
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 135619
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 273
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 127
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-771-161A-127

Query Match 66.7%; Score 54; DB 9; Length 243;
Best Local Similarity 70.6%; Pred. No. 3.2;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 2 KKAARAARAAKAAKARA 18
||||| ||||| |||||
Db 9 KKAARAARAAARAAKAA 25

RESULT 4
US-09-888-721-2
; Sequence 2, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID

; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-2

Query Match 65.4%; Score 53; DB 9; Length 26;
Best Local Similarity 61.1%; Pred. No. 0.47;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKYARAARAAKAAKARA 18
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Db 1 AKYAKSPKAAKAAKPKKA 18

RESULT 5
US-09-888-721-32
; Sequence 32, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-32

Query Match 65.4%; Score 53; DB 9; Length 26;
Best Local Similarity 61.1%; Pred. No. 0.47;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKYARAARAAKAAKARA 18
||||| ||||| |||||
Db 1 AKYAKSPKAAKAAKPKKA 18

RESULT 6
US-10-240-430-8
; Sequence 8, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02

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; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-8

Query Match      65.4%; Score 53; DB 16; Length 55;
Best Local Similarity 61.1%; Pred. No. 1;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKARAAKKAARAAKARA 18
Db 12 AKKAKSPKKAARAAKPKKA 29

RESULT 7
US-10-240-430-7
; Sequence 7, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-7

Query Match      65.4%; Score 53; DB 16; Length 66;
Best Local Similarity 61.1%; Pred. No. 1.2;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKARAAKKAARAAKARA 18
Db 12 AKKAKSPKKAARAAKPKKA 29

RESULT 8
US-10-262-209-2
; Sequence 2, Application US/10262209
; Publication No. US20030125239A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegir, Selma
; TITLE OF INVENTION: Compositions for Drug Delivery
; FILE REFERENCE: GJE-6703
; CURRENT APPLICATION NUMBER: US/10/262,209
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: UK 0218324.2
; PRIOR FILING DATE: 2002-08-07
; PRIOR APPLICATION NUMBER: PCT/GB01/01699
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 2
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-262-209-2

Query Match      65.4%; Score 53; DB 14; Length 130;
Best Local Similarity 61.1%; Pred. No. 2.3;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKARAAKKAARAAKARA 18
Db 76 AKKAKSPKKAARAAKPKKA 93

RESULT 9
US-10-240-430-5
; Sequence 5, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-5

Query Match      65.4%; Score 53; DB 16; Length 130;
Best Local Similarity 61.1%; Pred. No. 2.3;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKARAAKKAARAAKARA 18
Db 76 AKKAKSPKKAARAAKPKKA 93

RESULT 10
US-10-229-567-4
; Sequence 4, Application US/10229567
; Publication No. US20030092080A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Ofer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
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;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/10/229,567
;; FILING DATE: 27-Aug-2002
;; CLASSIFICATION: <Unknown>
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;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/09/417,264
;; FILING DATE: <Unknown>
;; APPLICATION NUMBER: US 09/041,889
;; FILING DATE: <Unknown>
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Campbell, Cathryn A.
;; REGISTRATION NUMBER: 31,815
;; REFERENCE/DOCKET NUMBER: P-PW 3006
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (619) 535-9001
;; TELEFAX: (619) 535-8949
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 218 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;;
;; FEATURE:
;; NAME/KEY: Peptide
;; LOCATION: 1..218
;; OTHER INFORMATION: /note= "product = Human Histone
;; H1-S-4"
;;
;; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-229-567-4

Query Match 65.4%; Score 53; DB 14; Length 218;
Best Local Similarity 61.1%; Pred. No. 3.9;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKAAAKKAAKAAKARA 18
Db 166 AKKAKSPKAAKAAKPKKA 183

RESULT 11
US-10-262-209-1
; Sequence 1, Application US/10262209
; Publication No. US20030125239A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Compositions for Drug Delivery
; FILE REFERENCE: GJE-6703
; CURRENT APPLICATION NUMBER: US/10/262,209
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: UK 0218324.2
; PRIOR FILING DATE: 2002-08-07
; PRIOR APPLICATION NUMBER: PCT/GB01/01699
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 234
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-262-209-1

Query Match 65.4%; Score 53; DB 14; Length 234;
Best Local Similarity 61.1%; Pred. No. 4.2;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKAAAKKAAKAAKARA 18
Db 167 AKKAKSPKAAKAAKPKKA 184

RESULT 12
US-10-240-430-2
; Sequence 2, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 234
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-2

Query Match 65.4%; Score 53; DB 16; Length 234;
Best Local Similarity 61.1%; Pred. No. 4.2;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKAAAKKAAKAAKARA 18
Db 167 AKKAKSPKAAKAAKPKKA 184

RESULT 13
US-10-369-493-1440
; Sequence 1440, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 1440
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-1440

Query Match 65.4%; Score 53; DB 15; Length 344;
Best Local Similarity 68.8%; Pred. No. 6.1;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 2 KKAARAAKAAKAAKAR 17
Db 318 KKAARAAKAAKAAKAR 333

RESULT 14
US-10-156-761-12370
; Sequence 12370, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:

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; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12370
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12370

Query Match      63.0%; Score 51; DB 14; Length 272;
Best Local Similarity 64.7%; Pred. No. 9.3;
Matches 11; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 KKAAAKKAAAKKARA 18
      ||| ||| ||| ||| |||
DB      106 KKAATKKAARARAAA 122

RESULT 15
US-10-282-122A-59321
; Sequence 59321, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELTRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 59321
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-10-282-122A-59321

Query Match      61.7%; Score 50; DB 12; Length 323;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 AKKAAAKKAAAKKA 16
      ||| ||| ||| ||| |||
DB      179 AAKAAAKKAAAKKA 194

Search completed: August 17, 2004, 17:19:16
Job time : 29.3812 secs
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;/ ZIP: 02173-4799
;/ COMPUTER READABLE FORM:
;/ MEDIUM TYPE: Floppy disk
;/ COMPUTER: IBM PC compatible
;/ OPERATING SYSTEM: PC-DOS/MS-DOS
;/ SOFTWARE: Patent In Release #1.0, Version #1.25
;/ CURRENT APPLICATION DATA:
;/ APPLICATION NUMBER: US/08/346,849
;/ FILING DATE:
;/ CLASSIFICATION: 435
;/ PRIOR APPLICATION DATA:
;/ APPLICATION NUMBER: 07/973,326
;/ FILING DATE: 28 DECEMBER 1992
;/ ATTORNEY/AGENT INFORMATION:
;/ NAME: Brook, David E.
;/ REGISTRATION NUMBER: 22,592
;/ REFERENCE/DOCKET NUMBER: MIT-6008
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: (617) 861-6240
;/ TELEFAX: (617) 861-9540
;/ INFORMATION FOR SEQ ID NO: 16:
;/ SEQUENCE CHARACTERISTICS:
;/ LENGTH: 60 amino acids
;/ TYPE: amino acid
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: protein
;/ US-08-346-849-16

Query Match 56.6%; Score 81.5; DB 1; Length 60;
Best Local Similarity 56.8%; Pred. No. 0.0024;
Matches 21; Conservative 4; Mismatches 7; Indels 5; Gaps 1;

QY 1 ARKKAARAAKKAAXA-----ARKKAARAAKKAAXA 32
Db 11 AKKKAARAAKKAAXAKKPKKKAARAAKKAAXAKKPKK 47

RESULT 3
US-08-293-284A-16
; Sequence 16, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: DiPersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284A
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592

;/ REFERENCE/DOCKET NUMBER: MIT-6008A
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: (617) 861-6240
;/ TELEFAX: (617) 861-9540
;/ INFORMATION FOR SEQ ID NO: 16:
;/ SEQUENCE CHARACTERISTICS:
;/ LENGTH: 60 amino acids
;/ TYPE: amino acid
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: protein
;/ US-08-293-284A-16

Query Match 56.8%; Score 81.5; DB 2; Length 60;
Best Local Similarity 56.8%; Pred. No. 0.0024;
Matches 21; Conservative 4; Mismatches 7; Indels 5; Gaps 1;

QY 1 ARKKAARAAKKAAXA-----ARKKAARAAKKAAXA 32
Db 11 AKKKAARAAKKAAXAKKPKKKAARAAKKAAXAKKPKK 47

RESULT 4
US-08-898-300-16
; Sequence 16, Application US/08898300
; Patent No. 6548630
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/898,300
; FILING DATE: 22 JULY 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/346,849
; FILING DATE: 30 NOVEMBER 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008FB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781) 861-6240
; TELEFAX: (781) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-898-300-16

Query Match 56.6%; Score 81.5; DB 4; Length 60;
Best Local Similarity 56.8%; Pred. No. 0.0024;


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Matches 21; Conservative 4; Mismatches 7; Indels 5; Gaps 1;

Qy 1 ARKKAARKKAARKA-----ARKKAARKKAARKA 32
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Db 11 AKKKAARKKAARKAKKPKKKAARKKPKKKS 47

RESULT 5
US-09-041-889-27
; Sequence 27, Application US/09041889
; Patent No. 6033864
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/041,889
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: US 08/837,058
; FILING DATE: 11-APR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELEPHONE: (619) 535-9901
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 214 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-041-889-27

Query Match 55.9%; Score 80.5; DB 3; Length 214;
Best Local Similarity 63.6%; Pred. No. 0.0098;
Matches 21; Conservative 2; Mismatches 9; Indels 1; Gaps 1;

Qy 1 ARKKAARKKAARKKAARKKAARKKAARKKA 32
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Db 11 AKKVAKAPAKKATKAARKKAATKAPAKKAATKA 143

RESULT 6
US-09-417-264-27
; Sequence 27, Application US/09417264
; Patent No. 6537768
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:

```

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; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/417,264
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/041,889
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9901
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 214 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-417-264-27

Query Match 55.9%; Score 80.5; DB 4; Length 214;
Best Local Similarity 63.6%; Pred. No. 0.0098;
Matches 21; Conservative 2; Mismatches 9; Indels 1; Gaps 1;

Qy 1 ARKKAARKKAARKKAARKKAARKKAARKKA 32
   :|||||:|||||:|||||:|||||:|||||:
Db 11 AKKVAKAPAKKATKAARKKAATKAPAKKAATKA 143

RESULT 7
US-08-303-025-16
; Sequence 16, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS v.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992

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APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7WK-060548-00231
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-16

Query Match 55.6%; Score 80; DB 1; Length 33;
Best Local Similarity 65.6%; Pred. No. 0.002; 7; Indels 2; Gaps 1;
Matches 21; Conservative

Qy 1 ARKKAARKKAARKKAARKKAARKKAARKKA 32
Db 2 AAKKAARKKAARKKA--KKAARKKAARKKA 31

RESULT 8
US-08-436-703B-4
Sequence 4, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Suite 1525
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44MB, 3.5"
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELEPHONE: 313-965-1976

TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-4

Query Match 55.6%; Score 80; DB 2; Length 33;
Best Local Similarity 65.6%; Pred. No. 0.002;
Matches 21; Conservative 2; Mismatches 7; Indels 2; Gaps 1;

Qy 1 ARKKAARKKAARKKAARKKAARKKAARKKA 32
Db 2 AAKKAARKKAARKKA--KKAARKKAARKKA 31

RESULT 9
US-08-995-172-14
Sequence 14, Application US/08995172B
Patent No. 6218112
GENERAL INFORMATION:
APPLICANT: Thatcher, David R
APPLICANT: Wilks, Paula E
TITLE OF INVENTION: Optimization of Gene Delivery and Gene Delivery Systems
FILE REFERENCE: CAC00026
CURRENT APPLICATION NUMBER: US/08/995,172B
CURRENT FILING DATE: 1997-12-22
EARLIER APPLICATION NUMBER: 60/033,908
EARLIER FILING DATE: 1996-12-23
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 14
LENGTH: 49
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: UNSURE
LOCATION: (49)
OTHER INFORMATION: Xaa is Cys with Acm sidechain
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Peptide
US-08-995-172-14

Query Match 54.2%; Score 78; DB 3; Length 49;
Best Local Similarity 58.1%; Pred. No. 0.0049;
Matches 18; Conservative 4; Mismatches 9; Indels 0; Gaps 0;

Qy 1 ARKKAARKKAARKKAARKKAARKKAARKKA 31
Db 7 AKKPAARKKPAKPAKPAKPAKPAKPAK 37

RESULT 10
US-08-839-624-26
Sequence 26, Application US/08839624
Patent No. 6225045
GENERAL INFORMATION:
APPLICANT: Kari et al.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATING
TITLE OF INVENTION: HIV INFECTION
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Inc.
STREET: One Financial Center
CITY: Boston

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/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02111
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Wordperfect 6.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/839,624
/ FILING DATE: April 15, 1997
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/GB96/78191
/ FILING DATE: 15-APR-1996
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/017,268
/ FILING DATE: 13-MAY-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Kathleen M. Williams
/ REGISTRATION NUMBER: 34,380
/ REFERENCE/DOCKET NUMBER: 3255/5390
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-345-9100
/ TELEFAX: 617-345-9111
/ INFORMATION FOR SEQ ID NO: 26:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 49 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: unknown
/ MOLECULE TYPE: peptide
/ SEQUENCE DESCRIPTION: SEQ ID NO: 26:
US-09-150-812-26

Query Match 54.2%; Score 78; DB 3; Length 49;
Best Local Similarity 58.1%; Pred. No. 0.0049;
Matches 18; Conservative 4; Mismatches 9; Indels 0; Gaps 0;

QY 1 ARKAAKAAARKKAAKAAKAAKAAKAAKAAK 31
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Db 7 AKKPAKSPKKAKKPAKSPKKAKKPAK 37

RESULT 11
US-09-150-812-26
; Sequence 26, Application US/09150812
; Patent No. 6395891
; GENERAL INFORMATION:
; APPLICANT: Karn et al.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATTING
; HIV INFECTION
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Witcoff, Inc.
; STREET: One Financial Center
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/150,812
; FILING DATE: 11-Sep-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/839,624
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 60/017,268
; FILING DATE: 13-MAY-1996

/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02111
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Wordperfect 6.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/839,624
/ FILING DATE: April 15, 1997
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/GB96/78191
/ FILING DATE: 15-APR-1996
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/017,268
/ FILING DATE: 13-MAY-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Kathleen M. Williams
/ REGISTRATION NUMBER: 34,380
/ REFERENCE/DOCKET NUMBER: 3255/5390
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-345-9100
/ TELEFAX: 617-345-9111
/ INFORMATION FOR SEQ ID NO: 26:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 49 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: unknown
/ MOLECULE TYPE: peptide
/ SEQUENCE DESCRIPTION: SEQ ID NO: 26:
US-09-150-812-26

Query Match 54.2%; Score 78; DB 3; Length 49;
Best Local Similarity 58.1%; Pred. No. 0.0049;
Matches 18; Conservative 4; Mismatches 9; Indels 0; Gaps 0;

QY 1 ARKAAKAAARKKAAKAAKAAKAAKAAKAAK 31
|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|
Db 7 AKKPAKSPKKAKKPAKSPKKAKKPAK 37

RESULT 12
US-09-252-991A-32957
; Sequence 32957, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32957
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32957

Query Match 54.2%; Score 78; DB 4; Length 316;
Best Local Similarity 64.5%; Pred. No. 0.027;
Matches 20; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

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Db 211 AAKPAKPTAKAAKPAKPAKAAKAAKPAK 241

RESULT 13
US-08-152-488-13
; Sequence 13, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
```

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; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-152-488-13

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Query Match 53.5%; Score 77; DB 1; Length 32;
Best Local Similarity 66.7%; Pred. No. 0.0043;
Matches 20; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

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QY 3 KKAARKKAAKAAKAAKAAKAAKAAKAAKAA 32
Db 3 KKAARKKAAKAAKAAKAAKAAKAAKAAKAA 30

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RESULT 14
US-08-303-025-15
; Sequence 15, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS v.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-303-025-15

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Query Match 53.5%; Score 77; DB 1; Length 32;
Best Local Similarity 66.7%; Pred. No. 0.0043;
Matches 20; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

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QY 3 KKAARKKAAKAAKAAKAAKAAKAAKAAKAA 32
Db 3 KKAARKKAAKAAKAAKAAKAAKAAKAAKAA 30

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RESULT 15
US-08-677-304-13
; Sequence 13, Application US/08677304
; Patent No. 5721212
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/677,304
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:

```

```

; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. 5721212 Relevant
; TOPOLOGY: No. 5721212 Relevant
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-677-304-13

Query Match      53.5%; Score 77; DB 1; Length 32;
Best Local Similarity 66.7%; Pred. No. 0.0043;
Matches 20; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

Qy      3 KKAARAKKAAKAAKAAKAAKAAKAAKAA 32
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Db      3 KKAARAKKAAKAAKAAKAAKAAKAAKAA 30

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 50.4554 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-8

Perfect score: 144

Sequence: 1 ARKAAARAKKAAARAKKAAARAKKAAKA 32

Scoring table: BIOSUM62

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Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	94	65.3	347	12	US-10-282-122A-66237 Sequence 66237, A
2	94	65.3	347	14	US-10-127-032-120 Sequence 120, App
3	94	65.3	372	12	US-10-282-122A-68109 Sequence 68109, A
4	88	61.1	336	12	US-10-282-122A-69962 Sequence 69962, A
5	84	58.3	827	16	US-10-437-963-152005 Sequence 152005, A
6	81.5	56.6	60	16	US-10-390-472-16 Sequence 16, Appl
7	81	56.2	428	12	US-10-282-122A-55748 Sequence 55748, A
8	80.5	55.9	214	12	US-10-282-122A-62547 Sequence 62547, A
9	80.5	55.9	214	12	US-10-282-122A-64817 Sequence 64817, A
10	80.5	55.9	214	14	US-10-429-567-27 Sequence 27, Appl
11	79	54.9	685	15	US-10-369-493-3684 Sequence 3684, Ap
12	78	54.2	91	12	US-10-393-449-51 Sequence 51, Appl
13	78	54.2	91	14	US-10-177-725-51 Sequence 51, Appl
14	78	54.2	104	12	US-10-393-449-47 Sequence 47, Appl
15	78	54.2	104	14	US-10-177-725-47 Sequence 47, Appl

ALIGNMENTS

RESULT 1

US-10-282-122A-66237
; Sequence 66237, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636

Sequence 43, Appl
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Sequence 44, Appl
Sequence 45, Appl
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Sequence 95, Appl
Sequence 76514, A
Sequence 54, Appl
Sequence 104, App

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US-10-393-449-98
US-10-177-725-98
US-09-820-843A-95
US-10-282-122A-76514
US-10-393-449-54
US-10-393-449-104

78 54.2 105 12
78 54.2 105 12
78 54.2 105 14
78 54.2 105 14
78 54.2 106 12
78 54.2 106 12
78 54.2 106 12
78 54.2 106 14
78 54.2 106 14
78 54.2 110 14
78 54.2 110 14
78 54.2 309 10
78 54.2 388 12
77 53.5 91 12
77 53.5 91 14
77 53.5 104 12
77 53.5 104 14
77 53.5 106 12
77 53.5 106 12
77 53.5 106 14
77 53.5 106 14
77 53.5 111 12
77 53.5 111 14
77 53.5 369 10
77 53.5 369 12
76 52.8 67 12
76 52.8 67 12

; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 66237
 ; LENGTH: 347
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas aeruginosa
 US-10-282-122A-66237

Query Match 65.3%; Score 94; DB 12; Length 347;
 Best Local Similarity 66.7%; Pred. No. 0.0027;
 Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARAKKAARAKKAARAKKAARAKKA 30
 DB 163 AKKAAEDAKKAAEDAKKAAEDAKKAA 192

RESULT 2

US-10-127-032-120
 ; Sequence 120, Application US/10127032
 ; Publication No. US20030113742A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Whiteley, Marvin
 ; APPLICANT: Bangera, M. Gita
 ; APPLICANT: Lory, Stephen
 ; APPLICANT: Greenberg, Everett Peter
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
 ; TITLE OF INVENTION: BIOFILM FORMATION
 ; FILE REFERENCE: UIZ-070CP
 ; CURRENT APPLICATION NUMBER: US/10/127,032
 ; CURRENT FILING DATE: 2002-04-19
 ; PRIOR APPLICATION NUMBER: US 60/285,190
 ; PRIOR FILING DATE: 2001-04-20
 ; PRIOR APPLICATION NUMBER: US 60/344,142
 ; PRIOR FILING DATE: 2001-10-24
 ; NUMBER OF SEQ ID NOS: 170
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 120
 ; LENGTH: 347
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas aeruginosa
 US-10-127-032-120

Query Match 65.3%; Score 94; DB 14; Length 347;
 Best Local Similarity 66.7%; Pred. No. 0.0027;
 Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARAKKAARAKKAARAKKAARAKKA 30
 DB 163 AKKAAEDAKKAAEDAKKAAEDAKKAA 192

RESULT 3

US-10-282-122A-68109
 ; Sequence 68109, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 ; FILE REFERENCE: ELITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09
 ; PRIOR APPLICATION NUMBER: 60/242,578
 ; PRIOR FILING DATE: 2000-10-23
 ; PRIOR APPLICATION NUMBER: 60/253,625
 ; PRIOR FILING DATE: 2000-11-27
 ; PRIOR APPLICATION NUMBER: 60/257,931
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 60/267,636
 ; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 68109
 ; LENGTH: 372
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas putida
 US-10-282-122A-68109

Query Match 65.3%; Score 94; DB 12; Length 372;
 Best Local Similarity 66.7%; Pred. No. 0.0029;
 Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARAKKAARAKKAARAKKAARAKKA 30
 DB 184 AKKAAEDAKKAAEDAKKAAEDAKKAA 213

RESULT 4

US-10-282-122A-69962
 ; Sequence 69962, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 ; FILE REFERENCE: ELITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09


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; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 69962
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match      61.1%; Score 88; DB 12; Length 336;
Best Local Similarity 63.3%; Pred. No. 0.013;
Matches 19; Conservative 7; Mismatches 4; Indels 0; Gaps 0;

Qy 1 ARKKAARAAKKAARAAKKAARAAKKA 30
Db 166 AKQAADAKKAADAKKAADAKKAADAKKAA 195

RESULT 5
US-10-437-963-152005
; Sequence 152005, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 152005
; LENGTH: 827
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_52099C.1.pep
US-10-437-963-152005

Query Match      58.3%; Score 84; DB 16; Length 827;
Best Local Similarity 56.2%; Pred. No. 0.084;
Matches 18; Conservative 9; Mismatches 5; Indels 0; Gaps 0;

Qy 1 ARKKAARAAKKAARAAKKAARAAKKA 32
Db 378 ARQRAAAVQKAAREARERAAERAAKAA 409

RESULT 6
US-10-390-472-16
; Sequence 16, Application US/10390472
; Publication No. US20040087013A1
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; Zhang, Shuguang
; Rich, Alexander
; DiPersio, C. Michael
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; Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,472
; FILING DATE: 17-Mar-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284
; FILING DATE: 22-AUG-1994
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-390-472-16

Query Match      56.8%; Score 81.5; DB 16; Length 60;
Best Local Similarity 56.8%; Pred. No. 0.013;
Matches 21; Conservative 4; Mismatches 7; Indels 5; Gaps 1;

Qy 1 ARKKAARAAKKAARAAKKAARAAKKA 32
Db 11 AKKKAARAAKKAARAAKKAARAAKKA 47

RESULT 7
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
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/ PRIOR FILING DATE: 2000-03-21
/ PRIOR APPLICATION NUMBER: 60/206,848
/ PRIOR FILING DATE: 2000-05-23
/ PRIOR APPLICATION NUMBER: 60/207,727
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: 60/230,335
/ PRIOR FILING DATE: 2000-09-06
/ PRIOR APPLICATION NUMBER: 60/230,347
/ PRIOR FILING DATE: 2000-09-09
/ PRIOR APPLICATION NUMBER: 60/242,578
/ PRIOR FILING DATE: 2000-10-23
/ PRIOR APPLICATION NUMBER: 60/253,625
/ PRIOR FILING DATE: 2000-11-27
/ PRIOR APPLICATION NUMBER: 60/257,931
/ PRIOR FILING DATE: 2000-12-22
/ PRIOR APPLICATION NUMBER: 60/267,636
/ PRIOR FILING DATE: 2001-02-09
/ PRIOR APPLICATION NUMBER: 60/269,308
/ PRIOR FILING DATE: 2001-02-16
/ Remaining prior Application data removed
/ NUMBER OF SEQ ID NOS: 78614
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 55746
/ LENGTH: 428
/ TYPE: PRT
/ ORGANISM: Enterobacter cloacae
/ US-10-282-122A-55748

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Query Match	56.2%	Score 81	DB 12	Length 428
Best Local Similarity	62.5%	Pred. No. 0.097		
Matches 20	Conservative	2	Mismatches 10	Indels 0
Gaps 0				

RESULT 8
US-10-282-122A-62547
Sequence 62547, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA 034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931

```

; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62547
; LENGTH: 214
; TYPE: PR1
; ORGANISM: Mycobacterium bovis
US-10-282-122A-62547

Query Match          55.9%;   Score 80.5;   DB 12;   Length 214;
Best Local Similarity 63.6%;   Pred. No. 0, 056;
Matches      21;   Conservative    2;   Mismatches    9;   Indels    1;   Gaps    0

QY      1 ARKKAARPKAAKKAAARKKAAGA-ARKKAAGA 32
Db      111 AKKYAKKAPAKKATKAACKTAATKAPAKAATKA 143

```

RESULT 9

US-10-282-122A-64817

Sequence 64817, Application US/10282122A

Publication No. US20040029129A1

GENERAL INFORMATION:

APPLICANT: Wang, Liangsu

APPLICANT: Zamudio, Carlos

APPLICANT: Malone, Cheryl

APPLICANT: Haselbeck, Robert

APPLICANT: Ohlsen, Kari

APPLICANT: Zyskind, Judith

APPLICANT: Wall, Daniel

APPLICANT: Trawick, John

APPLICANT: Carr, Grant

APPLICANT: Yamamoto, Robert

APPLICANT: Forsyth, R.

APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-09-06

PRIOR APPLICATION NUMBER: 60/230,347

PRIOR FILING DATE: 2000-09-09

PRIOR APPLICATION NUMBER: 60/242,578

PRIOR FILING DATE: 2000-10-23

PRIOR APPLICATION NUMBER: 60/253,625

PRIOR FILING DATE: 2000-11-27

PRIOR APPLICATION NUMBER: 60/257,931

PRIOR FILING DATE: 2000-12-22

PRIOR APPLICATION NUMBER: 60/267,636

PRIOR FILING DATE: 2001-02-09

PRIOR APPLICATION NUMBER: 60/269,308

PRIOR FILING DATE: 2001-02-16

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 78614

SOFTWARE: PatentIn version 3.1

SEQ ID NO 64817

LENGTH: 214

TYPE: PRT

ORGANISM: Mycobacterium tuberculosis

US-10-282-122A-64817

```

; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3684
; LENGTH: 685
; TYPE: PRT
; ORGANISM: Neurospora crassa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(685)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-3684

Query Match          54.9%; Score 79; DB 15; Length 685;
Best Local Similarity 58.1%; Pred. No. 0.26;
Matches 18; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

QY      2 RKKAARKKAAKAAARKKAAKKAARKKAAKA 32
       :|||||:|||||:|||||:|||||:
Db      587 KKKAARKKAAKAAKAAKAAKAAKAAK 617

RESULT 12
US-10-393-449-51
; Sequence 51, Application US/10393449
; Publication No. US20030224412A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Egenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFER
; FILE REFERENCE: RIGI-007CIP3
; CURRENT APPLICATION NUMBER: US/10/393,449
; CURRENT FILING DATE: 2003-03-18
; PRIOR APPLICATION NUMBER: US 10/177,725
; PRIOR FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 51
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-393-449-51

Query Match          54.2%; Score 78; DB 12; Length 91;
Best Local Similarity 61.3%; Pred. No. 0.047;
Matches 19; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY      2 RKKAARKKAAKAAARKKAAKKAARKKAAKA 32
       :|||||:|||||:|||||:|||||:
Db      54 QBAKAAKAAKAAKAAKAAKAAKAAKAAKA 84

RESULT 13
US-10-177-725-51
; Sequence 51, Application US/10177725
; Publication No. US20030143562A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David

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